# AQUA WATER REFILLING MANAGEMENT SYSTEM

**A Database Design**

**In Database Management System 1**

**Presented to the Faculty of CHMSC ITE Department**

**In Partial Fulfillment**

**Of the Requirements for the**

**Bachelor of Science in information Technology 1**

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## SYSTEM DESCRIPTION

One of the fastest and expanding businesses today is water refilling station. Water refilling station is small water system that has its own water purification facility producing a portable drinking water. The aqua water refilling system has their own water tank and equipment that intend on their business.

So, we design a system in this kind of business in order to be on top and align on the fast-growing business that is demand now a day.

The purpose of water refilling management system is to overcome difficulties in manual operation in refilling station. The difficulty in manual system are one of the reasons why the efficiency in availing services of the clients is not satisfying and keeping of records is often misplaced and not secure.

This system will be programmed to java that can enable the user to record things that are being purchased by the clients and it be created using MySQL database.

This system manages to display the data to be filled by the user according to the information of the customer in organize manner, such that their personal details, and the services they want to avail as well as the payment on the transaction they purchased. The system keeps the information of the customer and the details of what they purchased.

The system coordinates the arrangement on delivery of products. It consists all the records for the location of the clients, date of transaction, schedule of delivery, contact number and the person assign to deliver and the payment of customer to the quantity of product that about to deliver.

The system also views the information about the availability of the products as well as the containers. The system views the available containers to provide stocks again.

This system also manages the information of the employees that a refilling station must have just like front liner, cashier, technical assistant, and delivery an. It stores the information in organize so that it easy to the owner to access on the detail of his/her employee.

Upon having this system, it will provide the capacity to the owner and clients to transact without spending time and effort.

Basic features:

- Manage user (add, list updates)
- Delivery (confirm, cancel)
- Products (add, delete, update).

## ENTITY RELATIONSHIP DIAGRAM

Figure 1 Proposed water refilling management system Entity Relationship Diagram shows the system entity relationship in each entity and their supposed function in each relationship.

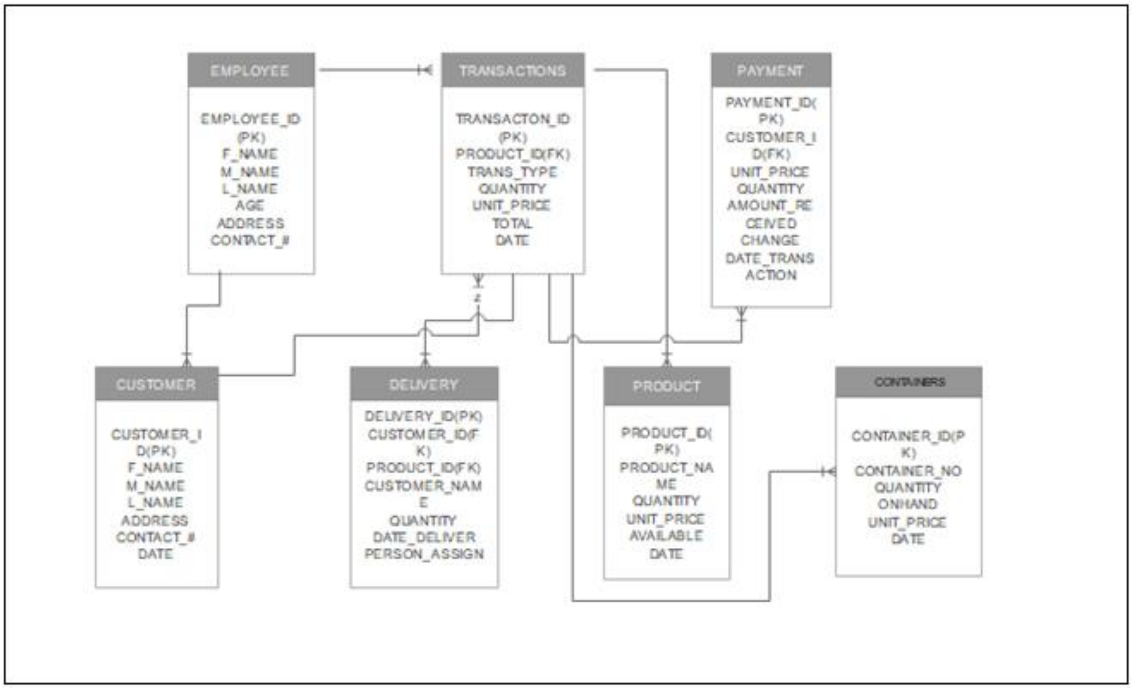


Figure 1.Aqua Water Refilling Management System Entity Relationship Diagram

Based on figure 1, the proposed aqua water refilling management system entity relationship diagram are the entity of the proposed water refilling management system database, which are represented by tables, the tables are made to meet the required specification of the system and provide a much specific details of the each entities within the system.

## DATA DICTIONARIES

The table below provide the entire database tables details such as field names, descriptions, data type and character length.

TABLE 1. EMPLOYEE

| FIELD NAMES | DESCRIPTION | TYPE | LENGTH |
|---|---|---|---|
| EMPLOYEE_ID(pk) | EMPLOYEE ID NUMBER | INT | 11 |
| F_NAME | EMPLOYEE FIRST NAME | VARCHAR | 50 |
| M_NAME | EMPLOYEE MIDDLE NAME | VARCHAR | 50 |
| L_NAME | EMPLOYEE LAST NAME | VARCHAR | 50 |
| AGE | AGE OF EMPLOYEE | VARCHAR | 11 |
| ADDRESS | LOCATION OF EMPLOYEE | VARCHAR | 50 |
| CONTACT_# | NUMBER OF EMPLOYEE | VARCHAR | 11 |

Table 2. Customer

| FIELD NAMES | DESCRIPTION | TYPE | LENGTH |
|---|---|---|---|
| CUSTOMER_ID(PK) | CUSTOMER ID NUMBER | INT | 11 |
| F_NAME | CUSTOMER FIRST NAME | VARCHAR | 50 |
| M_NAME | CUSTOMER MIDDLE NAME | VARCHAR | 50 |
| L_NAME | CUSTOMER  LAST NAME | VARCHAR | 50 |
| ADDRESS | LOCATION OF CUSTOMER | VARCHAR | 50 |
| CONTACT_# | NUMBER OF CUSTOMER | VARCHAR | 11 |
| DATE | DATE OF TRANSACTION | DATE TIME | 11 |

TABLE 3. PRODUCT

| FIELD NAMES | DESCRIPTION | TYPE | LENGTH |
|---|---|---|---|
| PRODUCT_ID(PK) | PRODUCT ID NUMBER | INT | 11 |
| PRODUCT_NAME | PRODUCT NAME | VARCHAR | 50 |
| QUANTITY | QUANTITY OF PRODUCTS | INT | 11 |
| UNIT_PRICE | PRICE OF PRODUCTS | VARCHAR | 50 |
| DATE | DATE | DATE | 11 |

TABLE 4. DELIVERY

| FIELD NAMES | DESCRIPTION | TYPE | LENGTH |
|---|---|---|---|
| DELIVERY_ID(PK) | DEELIVERY ID NUMBER | INT | 11 |
| CUSTOMER_ID(FK) | CUSTOMER ID NUMBER | INT | 11 |
| PRODUCT_ID(FK) | PRODUCT ID NUMBER | INT | 11 |
| TRANSACTION_ID | TRANSACTION ID NUMBER | INT | 11 |
| QUANTITY | QUANTITY OF PRODUCTS | INT | 11 |
| DELIVERY_MAN | DELIVERY MAN | VARCHAR | 50 |
| DATE_DELIVER | DATE TO DELIVER | DATE TIME | 11 |

TABLE5.CONTAINERS

| FIELD NAMES | DESCRIPTION | TYPE | LENGTH |
|---|---|---|---|
| CONTAINER_ID | CONTAINER ID NUMBER | INT | 11 |
| CONTAINER_NO | CONTROL NUMBER | INT | 50 |
| QUANTITY | QUANTITY ORDER OF CUSTOMER | INT | 20 |
| ON_HAND | AVAILABLE CONTAINERS | VARCHAR | 50 |
| UNIT_PRICE | PRICE OF CONTAINERS | VARCHAR | 11 |

TABLE 6.PAYMENT

| FIELD NAMES | DESCRIPTION | TYPE | LENGTH |
|---|---|---|---|
| PAYMENT_ID | PRODUCT ID NUMBER | INT | 11 |
| CUSTOMER_ID | CUSTOMER ID NUMBER | INT | 50 |
| TRANSACTION_ID | DATE OF TRANSACTION | DATE TIME | 11 |
| TOTAL | TOTAL OFPURCHASED PRODUCT | INT | 11 |
| AMOUNT_RECEIVED | AMOUNT RECEIVED | INT | 11 |
| CHANGED | CHANGED | INT | 11 |

TABLE 7.TRANSACTION

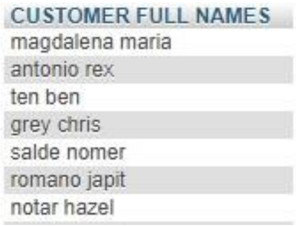
| FIELD NAMES | DESCRIPTION | TYPE | LENGTH |
|---|---|---|---|
| TRANSACTION_ID | PRODUCT ID NUMBER | INT | 11 |
| PRODUCT_ID | PRODUCT ID NUMBER | INT | 50 |
| TRANS_TYPE | TYPE OF TRANSACTION | VARCHAR | 11 |
| UNIT_PRICE | PRICE OF PRODUCT | VARCHAR | 50 |
| QUANTITY | QUANTITY OF PRODUCT | INT | 11 |
| TOTAL | TOTAL COST OF TRASACTION | INT | 11 |
| DATE | DATE | DATE | 11 |

## SELECT STATEMENT USING DIFFERENT FUNCTIONS

1. Create a query that display the complete names of all customer.
   a. Solution

```
            SELECT CONCAT (L_NAME,' ', F_NAME ) " CUSTOMER FULL NAMES"
FROM `customer`;
```

   b. Result



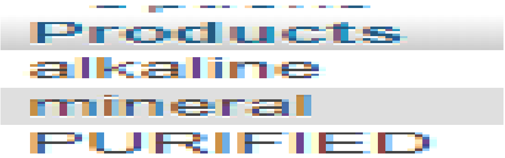
| CUSTOMER FULL NAMES |
|---|
| magdalena maria |
| antonio rex |
| ten ben |
| grey chris |
| salde nomer |
| romano japit |
| notar hazel |

15 Result(s) found.

2. Create a query that display all the name of products.
   a. Solution

```
SELECT DISTINCT(product_name) as "Products" FROM `product`;
```

   b. Result



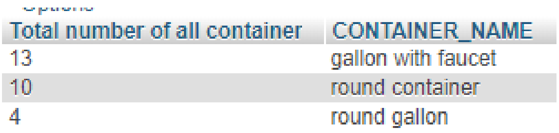
| Products |
|---|
| alkaline |
| mineral |
| PURIFIED |

3 result(s) found.

3. Show all the total number of each container.
   a. Solution

```
    SELECT sum(quantity) as "Total number of all
container",CONTAINER_NAME FROM `     containers` GROUP by
CONTAINER_NAME;
```

   b. Result



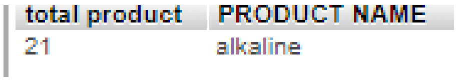
| Total number of all container | CONTAINER_NAME |
|---|---|
| 13 | gallon with faucet |
| 10 | round container |
| 4 | round gallon |

3 result(s) found.

4. Create a query that display the sum of the ALKALINE products.
   a. Solution

```
SELECT SUM(QUANTITY) "total product",Product_name"PRODUCT NAME"
FROM product WHERE Product_name='ALKALINE' ;
```

   b. Result



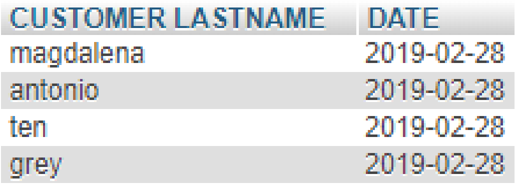
| total product | PRODUCT NAME |
|---|---|
| 21 | alkaline |

1 result(s) found

5. Show all the list of customer who transact in the month February 28.
   a. Solution

```
SELECT L_NAME "customer Last names", length (l_name)" last names
length" FROM customer;
```

b. Result



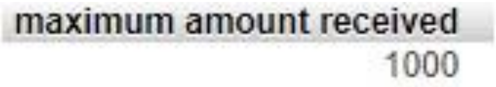
| CUSTOMER LASTNAME | DATE |
|---|---|
| magdalena | 2019-02-28 |
| antonio | 2019-02-28 |
| ten | 2019-02-28 |
| grey | 2019-02-28 |

6 result(s) received

6. Write a query that display the maximum amount received.
   a. Solution

```
SELECT MAX(AMOUNT_RECEIVED) " maximum amount received" FROM
`payment`;
```

   b. Result



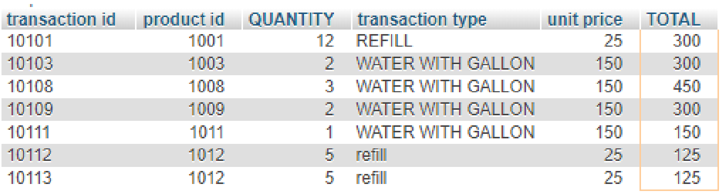
| maximum amount received |
|---|
| 1000 |

1 result(s) received

7. Write a query that display the list of customer transaction details that have balance more than 100.
   a. Solution

```
SELECT transaction_id "transaction id",PRODUCT_ID"product
id",QUANTITY,TRANS_TYPE"transaction type",UNIT_PRICE"unit
price",TOTAL FROM `transaction` WHERE TOTAL > 100;
```

   b. Result



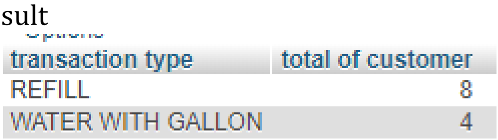
| transaction id | product id | QUANTITY | transaction type | unit price | TOTAL |
|---|---|---|---|---|---|
| 10101 | 1001 | 12 | REFILL | 25 | 300 |
| 10103 | 1003 | 2 | WATER WITH GALLON | 150 | 300 |
| 10108 | 1008 | 3 | WATER WITH GALLON | 150 | 450 |
| 10109 | 1009 | 2 | WATER WITH GALLON | 150 | 300 |
| 10111 | 1011 | 1 | WATER WITH GALLON | 150 | 150 |
| 10112 | 1012 | 5 | refill | 25 | 125 |
| 10113 | 1012 | 5 | refill | 25 | 125 |

7 result(s) received

8. For each transaction display the transaction type and calculate the total number of customer choose the transaction.
   a. Solution

```
SELECT TRANS_TYPE "transaction type", count(TRANS_TYPE)" total of
customer " FROM `transaction`GROUP by TRANS_TYPE;
```

b. Result



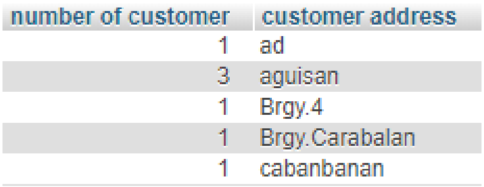
| transaction type | total of customer |
|---|---|
| REFILL | 8 |
| WATER WITH GALLON | 4 |

2 result(s) found

9. Show all the number of customer who transact in each address.
   a. Solution

      SELECT COUNT(ADDRESS) "number of customer", ADDRESS "customer address" FROM customer GROUP by ADDRESS;

   b. Result



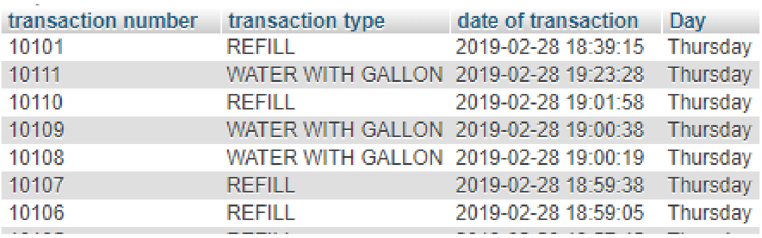
| number of customer | customer address |
|---|---|
| 1 | ad |
| 3 | aguisan |
| 1 | Brgy.4 |
| 1 | Brgy.Carabalan |
| 1 | cabanbanan |

12 result(s) found

10. Display each transaction type, date of transaction, and date of the week on which the transaction done. Label the column DAY. Order the results by the day of the week.
    a. Solution

       SELECT TRANSACTION_ID"transaction number",TRANS_TYPE"transaction type",`DATE`"date of transaction",dayname(date)"Day" FROM transaction ORDER by weekday(date);

    b. Result



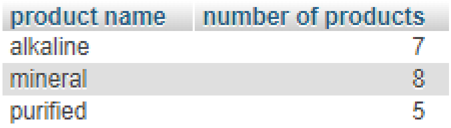
| transaction number | transaction type | date of transaction | Day |
|---|---|---|---|
| 10101 | REFILL | 2019-02-28 18:39:15 | Thursday |
| 10111 | WATER WITH GALLON | 2019-02-28 19:23:28 | Thursday |
| 10110 | REFILL | 2019-02-28 19:01:58 | Thursday |
| 10109 | WATER WITH GALLON | 2019-02-28 19:00:38 | Thursday |
| 10108 | WATER WITH GALLON | 2019-02-28 19:00:19 | Thursday |
| 10107 | REFILL | 2019-02-28 18:59:38 | Thursday |
| 10106 | REFILL | 2019-02-28 18:59:05 | Thursday |

8 result(s) found

11. Write a query that display product name in lowercase and total number of each product.
    a. Solution

       SELECT lower(Product_name)"product name",COUNT(Product_name)"number of products" FROM `product`GROUP by Product_name;

    b. Result



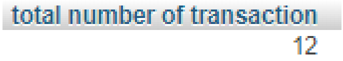
| product name | number of products |
|---|---|
| alkaline | 7 |
| mineral | 8 |
| purified | 5 |

1 result(s) received

12. Write a query that display the total number of transaction.
    a. Solution

```
SELECT count(*)"total number of transaction" FROM `transaction`;
```

    b. Result



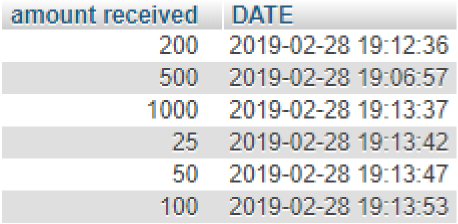
| total number of transaction |
|---|
| 12 |

1 result(s) found.

13. Create a query that display the date and amount received.
    a. Solution

```
SELECT AMOUNT_RECEIVED"amount received",DATE FROM `payment`;
```

    b. Result



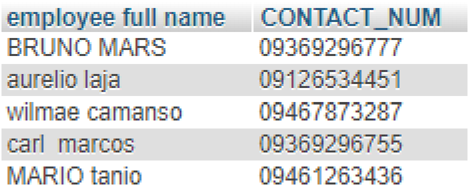
| amount received | DATE |
|---|---|
| 200 | 2019-02-28 19:12:36 |
| 500 | 2019-02-28 19:06:57 |
| 1000 | 2019-02-28 19:13:37 |
| 25 | 2019-02-28 19:13:42 |
| 50 | 2019-02-28 19:13:47 |
| 100 | 2019-02-28 19:13:53 |

15 result(s) found.

14. Show all employee full names and contact numbers.
    a. Solution

```
SELECT concat(F_NAME,' ',LAST_NAME)" employee full
name",CONTACT_NUM FROM employee;
```

    b. Result



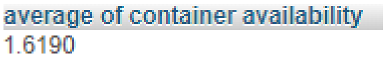
| employee full name | CONTACT_NUM |
|---|---|
| BRUNO MARS | 09369296777 |
| aurelio laja | 09126534451 |
| wilmae camanso | 09467873287 |
| carl  marcos | 09369296755 |
| MARIO tanio | 09461263436 |

3 result(s) found.

15. Show the maximum products.
    a. Solution

```
SELECT avg(quantity) " average of container availability" FROM product;
```

    b. Result



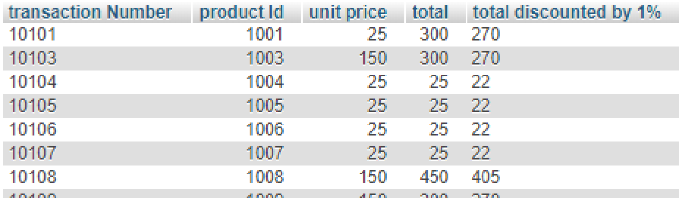
| average of container availability |
|---|
| 1.6190 |

1 result(s) found.

16. For each transaction, display the transaction number,product id, unit price, and total amount to be paid discounted by 1% and expressed as a whole number.
    a. Solution

```
SELECT transaction_ID as "transaction Number",PRODUCT_ID"product
number", UNIT_PRICE"unit price",total,total- ROUND(total*.1, 0) AS "total
discounted by 1%" FROM `transaction`;
```

    b. Result



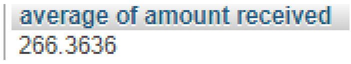
| transaction Number | product Id | unit price | total | total discounted by 1% |
|---|---|---|---|---|
| 10101 | 1001 | 25 | 300 | 270 |
| 10103 | 1003 | 150 | 300 | 270 |
| 10104 | 1004 | 25 | 25 | 22 |
| 10105 | 1005 | 25 | 25 | 22 |
| 10106 | 1006 | 25 | 25 | 22 |
| 10107 | 1007 | 25 | 25 | 22 |
| 10108 | 1008 | 150 | 450 | 405 |

12 result(s) found.

17. Create a query that display the average of amount tender by the customer.
    a. Solution

```
SELECT avg(amount_received) " average of amount received " FROM
payment;
```

    b. Result



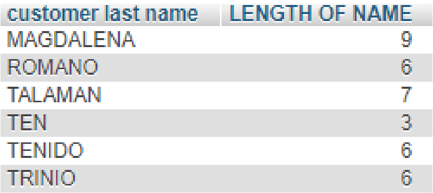
| average of amount received |
|---|
| 266.3636 |

1 result(s) found.

18. Write a query that display the customer last names starting with M, R, T, and it's length.
    a. Solution

```
SELECT upper(L_NAME) AS "customer last name",LENGTH (L_NAME)
"LENGTH OF NAME" FROM customer WHERE (L_NAME) LIKE 'r%' OR
L_NAME LIKE 't%'OR L_NAME  LIKE 'M%' ORDER BY L_NAME;
```

    b. Result



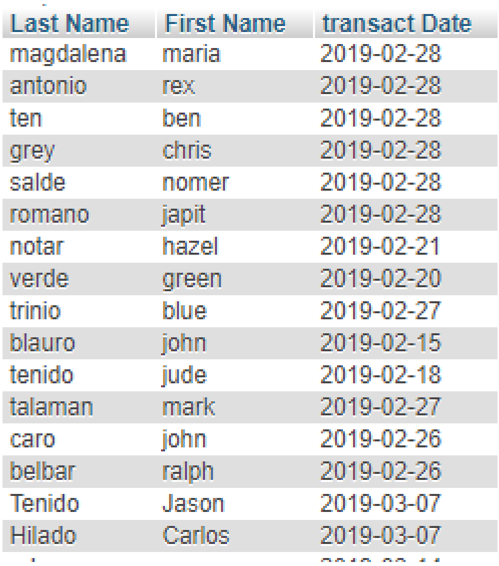
| customer last name | LENGTH OF NAME |
|---|---|
| MAGDALENA | 9 |
| ROMANO | 6 |
| TALAMAN | 7 |
| TEN | 3 |
| TENIDO | 6 |
| TRINIO | 6 |

6 result(s) found.

19. Display customer last name, first name and date of transaction who transact January 01, 2019 up to March 28, 2019.
    a. Solution:

```
SELECT L_NAME as "Last Name", F_NAME as " First Name", DATE as " transact
Date" FROM `customer` WHERE DATE BETWEEN '2019-01-12'AND'2019-03-
28';
```

    b. Result



| Last Name | First Name | transact Date |
|---|---|---|
| magdalena | maria | 2019-02-28 |
| antonio | rex | 2019-02-28 |
| ten | ben | 2019-02-28 |
| grey | chris | 2019-02-28 |
| salde | nomer | 2019-02-28 |
| romano | japit | 2019-02-28 |
| notar | hazel | 2019-02-21 |
| verde | green | 2019-02-20 |
| trinio | blue | 2019-02-27 |
| blauro | john | 2019-02-15 |
| tenido | jude | 2019-02-18 |
| talaman | mark | 2019-02-27 |
| caro | john | 2019-02-26 |
| belbar | ralph | 2019-02-26 |
| Tenido | Jason | 2019-03-07 |
| Hilado | Carlos | 2019-03-07 |

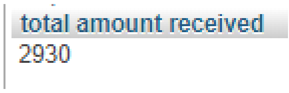
21 result(s) found

20. Display the total of amount received.

a. Solution

```
SELECT sum(AMOUNT_RECEIVED)" total amount received"FROM
`payment`;
```

b. Result



| total amount received |
|---|
| 2930 |

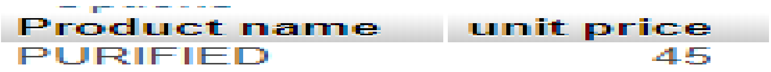
1 result(s) found

## Select Statements using Sub Query

1. Write a query that display the product name, price and the product that has many number of availabilty .
   a. Solution

```
SELECT Product_name "Product name",Unit_price"unit price" FROM product
WHERE Product_name in (SELECT max(Product_name) FROM
product)GROUP by Product_name;
```

   b. Result



| Product name | unit price |
|---|---|
| PURIFIED | 45 |

1 result(s) found.

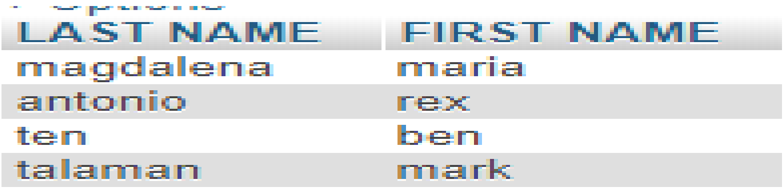
2. Write a query that display the customer last name, first name who lived in Talaban.
   a. Solution

```
SELECT L_NAME "LAST NAME",F_NAME"FIRST NAME" FROM `customer`

WHERE ADDRESS IN (SELECT ADDRESS FROM customer WHERE

ADDRESS='TALABAN');
```

   b. Result



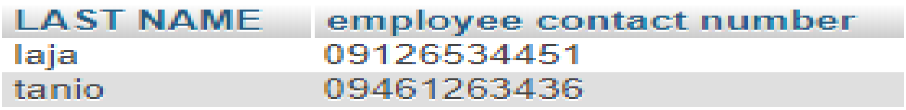
| LAST NAME | FIRST NAME |
|---|---|
| magdalena | maria |
| antonio | rex |
| ten | ben |
| talaman | mark |

4 Result(s) found

3. Write a query that display the last name contact number of employees who lived in Binalbagan.
   a. Solution

```
SELECT LAST_NAME "LAST NAME", CONTACT_NUM " employee contact
number" FROM `employee` WHERE ADDRESS IN (SELECT ADDRESS FROM
employee WHERE ADDRESS='Binalbagan');
```

   b. Result



| LAST NAME | employee contact number |
|---|---|
| laja | 09126534451 |
| tanio | 09461263436 |

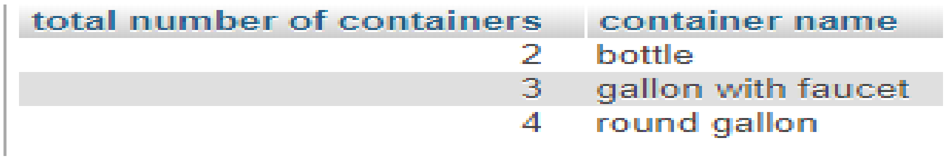
2 Result(s) found.

## Select Statements using Count and Group Functions

1. Display the name and the total number of containers.
   a. Solution

```
SELECT COUNT(CONTAINER_NAME) " total number of containers",
CONTAINER_NAME "container name" FROM containers GROUP by
CONTAINER_NAME;
```

b. Result



| total number of containers | container name |
|---|---|
| 2 | bottle |
| 3 | gallon with faucet |
| 4 | round gallon |

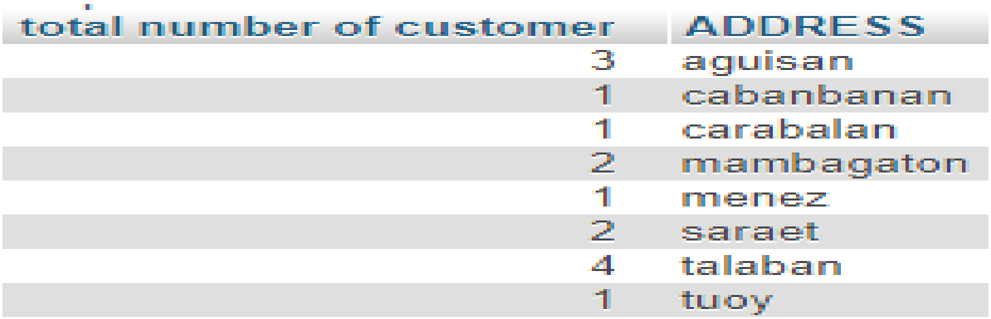
3 result(s) found.

2. Create a query that display the number of customer that transact on the address in the database.

a. Solution

```
SELECT COUNT(L_NAME)"total number of customer",ADDRESS FROM
`customer` GROUP by ADDRESS;
```

b. Result

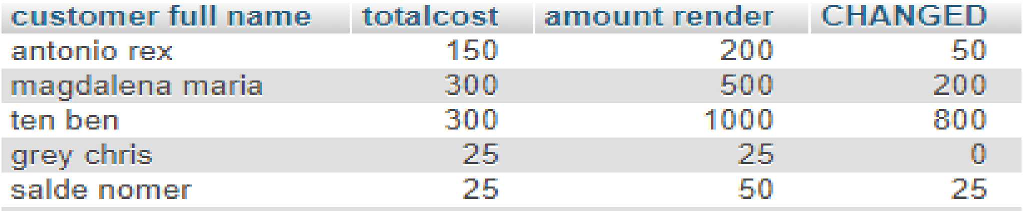


| total number of customer | ADDRESS |
|---|---|
| 3 | aguisan |
| 1 | cabanbanan |
| 1 | carabalan |
| 2 | mambagaton |
| 1 | menez |
| 2 | saraet |
| 4 | talaban |
| 1 | tuoy |

7 result(s) found.

**SELECT STATEMENT USING DIFFERENT JOINS**

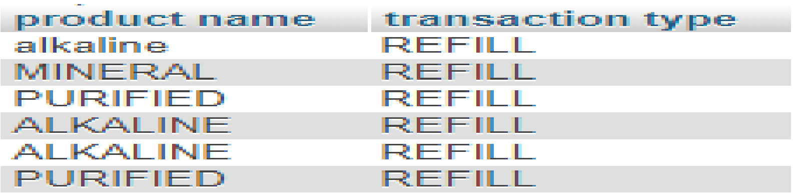
1. Create a query that display the customer full name, total cost of purchased product, the amount tender and the changed of the customer.
   a. Solution
      SELECT concat(customer.L_NAME," ",customer.F_NAME) "customer full name",payment.TOTAL_COST"totalcost",payment.AMOUNT_RECEIVED "amount render",payment.CHANGED FROM customer INNER JOIN payment on customer.CUSTOMER_ID=payment.CUSTOMER_ID;
   b. Result



| customer full name | totalcost | amount render | CHANGED |
|---|---|---|---|
| antonio rex | 150 | 200 | 50 |
| magdalena maria | 300 | 500 | 200 |
| ten ben | 300 | 1000 | 800 |
| grey chris | 25 | 25 | 0 |
| salde nomer | 25 | 50 | 25 |

9 result(s) found.

2. Show the list of product that is purchased through refill.
   a. Solution
      SELECT product.product_name"product name",transaction.TRANS_TYPE"transaction type" FROM product INNER JOIN transaction on product.product_id=transaction.PRODUCT_ID WHERE trans_type = "refill";
   b. Result



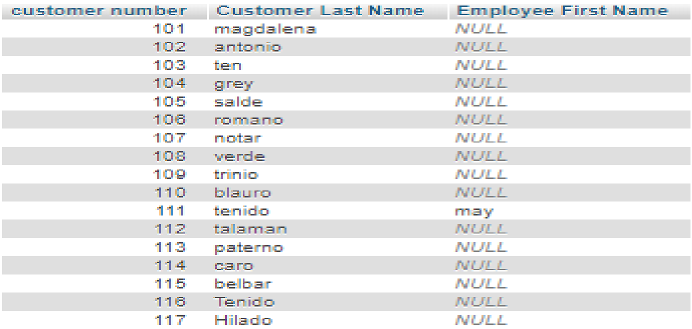
| product name | transaction type |
|---|---|
| alkaline | REFILL |
| MINERAL | REFILL |
| PURIFIED | REFILL |
| ALKALINE | REFILL |
| ALKALINE | REFILL |
| PURIFIED | REFILL |

6 result(s) found.

3. Show the list of customer number ,last name, and the employee first name.
   a. Solution

      SELECT customer.CUSTOMER_ID AS "customer number", customer.L_NAME AS " Customer Last Name", employee.F_NAME AS " Employee First Name" FROM customer LEFT JOIN employee ON customer.CUSTOMER_ID = employee.EMPLOYEE_ID ORDER BY customer.CUSTOMER_ID;

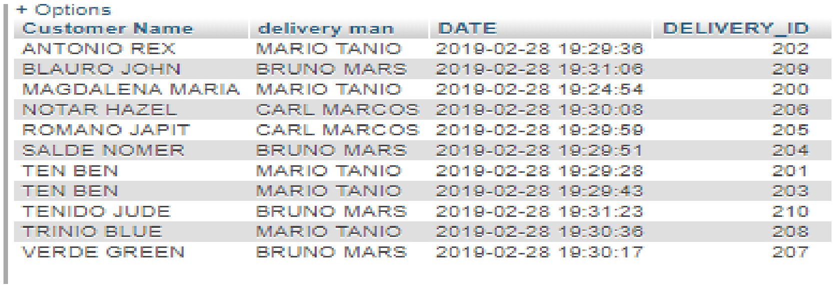
b. Result



| customer number | Customer Last Name | Employee First Name |
|---|---|---|
| 101 | magdalena | *NULL* |
| 102 | antonio | *NULL* |
| 103 | ten | *NULL* |
| 104 | grey | *NULL* |
| 105 | salde | *NULL* |
| 106 | romano | *NULL* |
| 107 | notar | *NULL* |
| 108 | verde | *NULL* |
| 109 | trinio | *NULL* |
| 110 | blauro | *NULL* |
| 111 | tenido | may |
| 112 | talaman | *NULL* |
| 113 | paterno | *NULL* |
| 114 | caro | *NULL* |
| 115 | belbar | *NULL* |
| 116 | Tenido | *NULL* |
| 117 | Hilado | *NULL* |

17 result(s) found.

4. Write a query that will display the delivery id, customer complete name in upper case format. Show also the list of delivery man and the date when the product will be deliver.
   a. Solution
      SELECT Upper(concat( customer.L_NAME," ",customer.F_NAME))"Customer Name",delivery.DELIVERY_MAN"delivery man",delivery.DATE,delivery.DELIVERY_ID FROM customer RIGHT JOIN delivery ON customer.CUSTOMER_ID=delivery.CUSTOMER_ID ORDER BY customer.L_NAME;
   b. Result

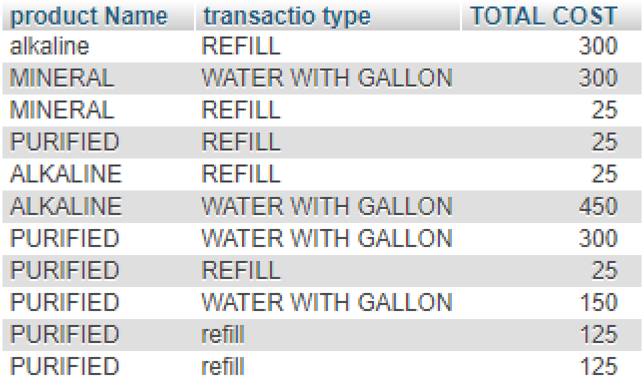


| Customer Name | delivery man | DATE | DELIVERY_ID |
|---|---|---|---|
| ANTONIO REX | MARIO TANIO | 2019-02-28 19:29:36 | 202 |
| BLAURO JOHN | BRUNO MARS | 2019-02-28 19:31:06 | 209 |
| MAGDALENA MARIA | MARIO TANIO | 2019-02-28 19:24:54 | 200 |
| NOTAR HAZEL | CARL MARCOS | 2019-02-28 19:30:08 | 206 |
| ROMANO JAPIT | CARL MARCOS | 2019-02-28 19:29:59 | 205 |
| SALDE NOMER | BRUNO MARS | 2019-02-28 19:29:51 | 204 |
| TEN BEN | MARIO TANIO | 2019-02-28 19:29:28 | 201 |
| TEN BEN | MARIO TANIO | 2019-02-28 19:29:43 | 203 |
| TENIDO JUDE | BRUNO MARS | 2019-02-28 19:31:23 | 210 |
| TRINIO BLUE | MARIO TANIO | 2019-02-28 19:30:36 | 208 |
| VERDE GREEN | BRUNO MARS | 2019-02-28 19:30:17 | 207 |

11 result(s) found.

5. Display the product name, transaction type and the total cost.
   a. Solution

      SELECT product.`product_NAME` AS "product Name", transaction.`trans_type` AS "transactio type",TOTAL"TOTAL COST"  FROM `product` JOIN transaction on(transaction.`product_ID`=product.`product_ID`);
   b. Result

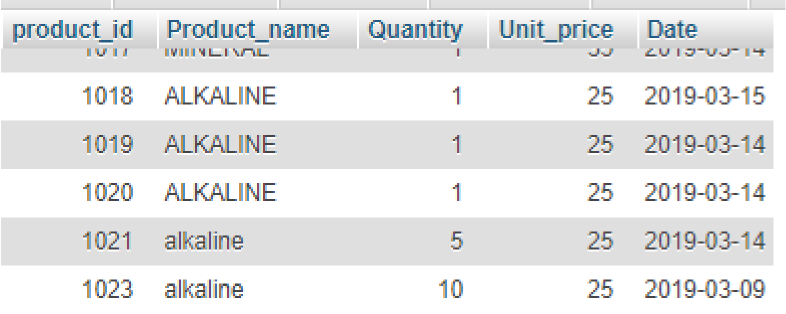


| product Name | transactio type | TOTAL COST |
|---|---|---|
| alkaline | REFILL | 300 |
| MINERAL | WATER WITH GALLON | 300 |
| MINERAL | REFILL | 25 |
| PURIFIED | REFILL | 25 |
| ALKALINE | REFILL | 25 |
| ALKALINE | WATER WITH GALLON | 450 |
| PURIFIED | WATER WITH GALLON | 300 |
| PURIFIED | REFILL | 25 |
| PURIFIED | WATER WITH GALLON | 150 |
| PURIFIED | refill | 125 |
| PURIFIED | refill | 125 |

11 result(s) found.

**Insert Statement**

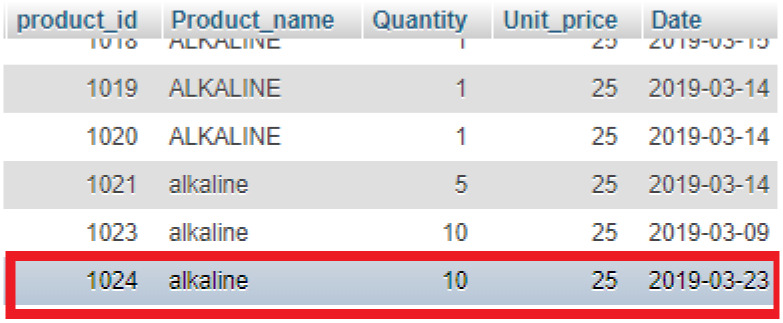
1. Create a query to insert 10 new alkaline product and its price is 25 pesos in March 23 2019.



| product_id | Product_name | Quantity | Unit_price | Date |
|---|---|---|---|---|
| 1017 | MINERAL | 1 | 35 | 2019-03-14 |
| 1018 | ALKALINE | 1 | 25 | 2019-03-15 |
| 1019 | ALKALINE | 1 | 25 | 2019-03-14 |
| 1020 | ALKALINE | 1 | 25 | 2019-03-14 |
| 1021 | alkaline | 5 | 25 | 2019-03-14 |
| 1023 | alkaline | 10 | 25 | 2019-03-09 |

a. Solution
INSERT INTO `product` (`product_id`, `Product_name`, `Quantity`, `Unit_price`) VALUES ('1024', 'alkaline', '10', '25');

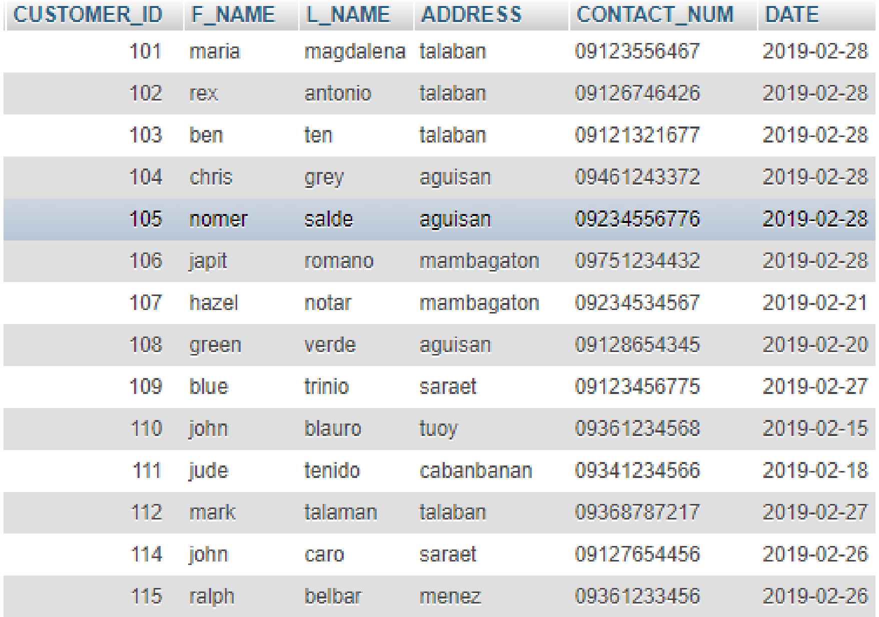
b. Result



| product_id | Product_name | Quantity | Unit_price | Date |
|---|---|---|---|---|
| 1018 | ALKALINE | 1 | 25 | 2019-03-15 |
| 1019 | ALKALINE | 1 | 25 | 2019-03-14 |
| 1020 | ALKALINE | 1 | 25 | 2019-03-14 |
| 1021 | alkaline | 5 | 25 | 2019-03-14 |
| 1023 | alkaline | 10 | 25 | 2019-03-09 |
| 1024 | alkaline | 10 | 25 | 2019-03-23 |

1 row(s) inserted.

2. Create a query to insert new customer whose named is Jason Tenido  living in Brgy.4 and has contact number of 09122345757  while Carlos Hilado lived in Brgy.Carabalan and has contactnumber of 09367281123.

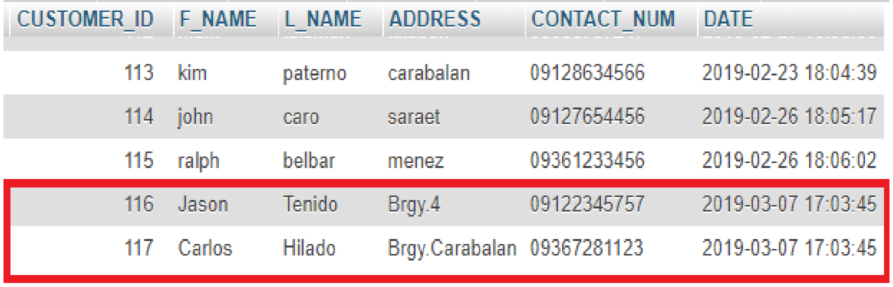


| CUSTOMER_ID | F_NAME | L_NAME | ADDRESS | CONTACT_NUM | DATE |
|---|---|---|---|---|---|
| 101 | maria | magdalena | talaban | 09123556467 | 2019-02-28 |
| 102 | rex | antonio | talaban | 09126746426 | 2019-02-28 |
| 103 | ben | ten | talaban | 09121321677 | 2019-02-28 |
| 104 | chris | grey | aguisan | 09461243372 | 2019-02-28 |
| 105 | nomer | salde | aguisan | 09234556776 | 2019-02-28 |
| 106 | japit | romano | mambagaton | 09751234432 | 2019-02-28 |
| 107 | hazel | notar | mambagaton | 09234534567 | 2019-02-21 |
| 108 | green | verde | aguisan | 09128654345 | 2019-02-20 |
| 109 | blue | trinio | saraet | 09123456775 | 2019-02-27 |
| 110 | john | blauro | tuoy | 09361234568 | 2019-02-15 |
| 111 | jude | tenido | cabanbanan | 09341234566 | 2019-02-18 |
| 112 | mark | talaman | talaban | 09368787217 | 2019-02-27 |
| 114 | john | caro | saraet | 09127654456 | 2019-02-26 |
| 115 | ralph | belbar | menez | 09361233456 | 2019-02-26 |

a. Solution

INSERT INTO `customer` (`CUSTOMER_ID`, `F_NAME`, `L_NAME`, `ADDRESS`, `CONTACT_NUM`, `DATE`) VALUES ('116', 'Jason', 'Tenido', 'Brgy.4', '09122345757', CURRENT_TIMESTAMP), ('117', 'Carlos', 'Hilado', 'Brgy.Carabalan', '09367281123', CURRENT_TIMESTAMP);

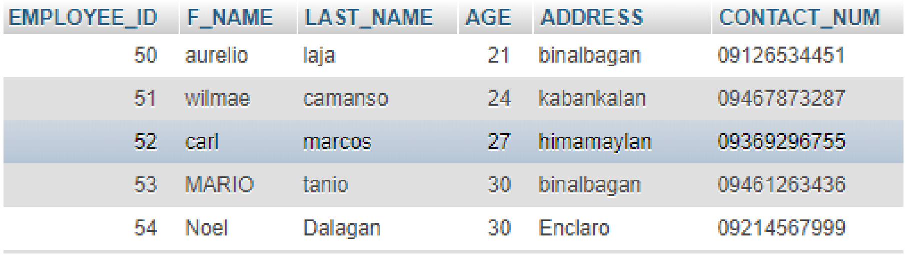
b. Result



| CUSTOMER_ID | F_NAME | L_NAME | ADDRESS | CONTACT_NUM | DATE |
|---|---|---|---|---|---|
| 113 | kim | paterno | carabalan | 09128634566 | 2019-02-23 18:04:39 |
| 114 | john | caro | saraet | 09127654456 | 2019-02-26 18:05:17 |
| 115 | ralph | belbar | menez | 09361233456 | 2019-02-26 18:06:02 |
| 116 | Jason | Tenido | Brgy.4 | 09122345757 | 2019-03-07 17:03:45 |
| 117 | Carlos | Hilado | Brgy.Carabalan | 09367281123 | 2019-03-07 17:03:45 |

2 record(s) inserted.

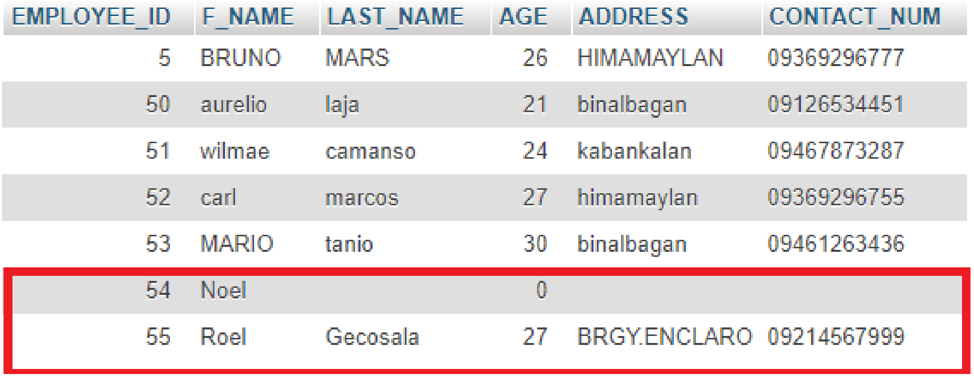
3. Create a query to insert new employee whose name is roel gecosala 27 years old who lived in bgry.enclaro and has a contact number of 09214567999.



| EMPLOYEE_ID | F_NAME | LAST_NAME | AGE | ADDRESS | CONTACT_NUM |
|---|---|---|---|---|---|
| 50 | aurelio | laja | 21 | binalbagan | 09126534451 |
| 51 | wilmae | camanso | 24 | kabankalan | 09467873287 |
| 52 | carl | marcos | 27 | himamaylan | 09369296755 |
| 53 | MARIO | tanio | 30 | binalbagan | 09461263436 |
| 54 | Noel | Dalagan | 30 | Enclaro | 09214567999 |

a. Solution
INSERT INTO `employee` (`EMPLOYEE_ID`, `F_NAME`, `LAST_NAME`, `AGE`, `ADDRESS`, `CONTACT_NUM`) VALUES ('55', 'Roel', 'Gecosala', '27', 'BRGY.ENCLARO', '09214567999');

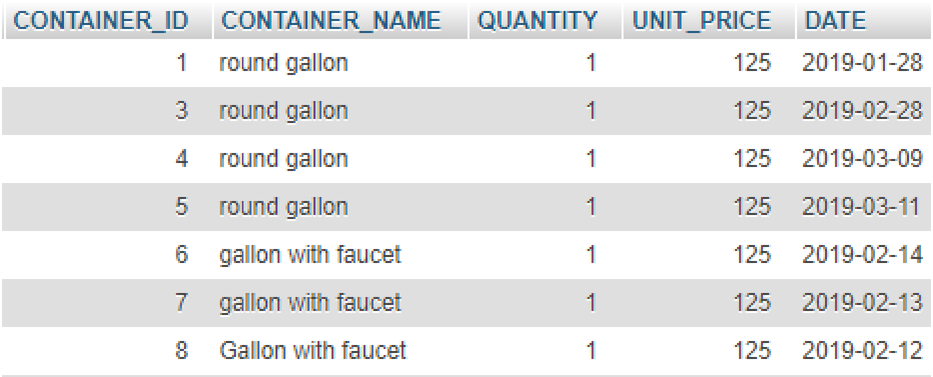
b. Result



| EMPLOYEE_ID | F_NAME | LAST_NAME | AGE | ADDRESS | CONTACT_NUM |
|---|---|---|---|---|---|
| 5 | BRUNO | MARS | 26 | HIMAMAYLAN | 09369296777 |
| 50 | aurelio | laja | 21 | binalbagan | 09126534451 |
| 51 | wilmae | camanso | 24 | kabankalan | 09467873287 |
| 52 | carl | marcos | 27 | himamaylan | 09369296755 |
| 53 | MARIO | tanio | 30 | binalbagan | 09461263436 |
| 54 | Noel |  | 0 |  |  |
| 55 | Roel | Gecosala | 27 | BRGY.ENCLARO | 09214567999 |

2 record(s) inserted.

4. Create a query to insert new 10 round  container and cost of 125.

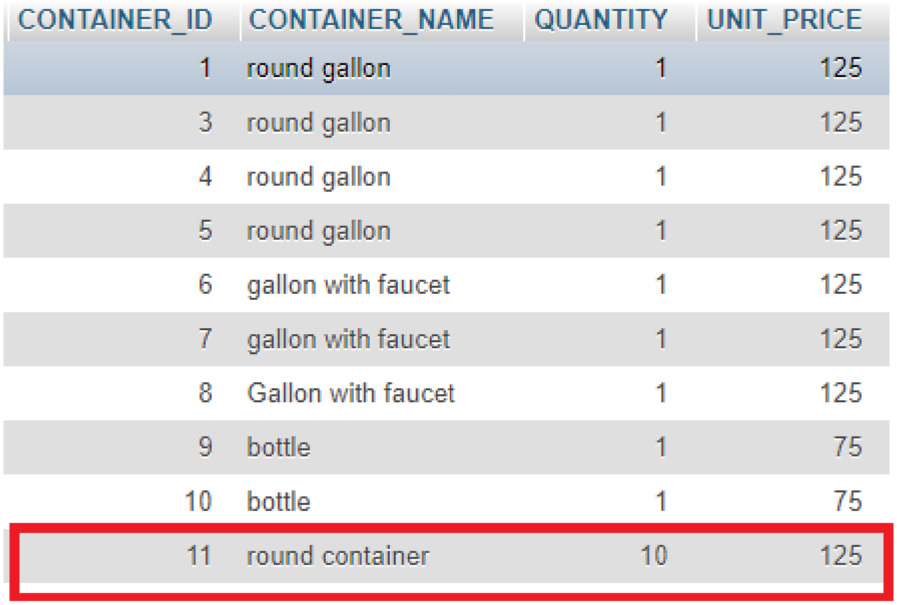


| CONTAINER_ID | CONTAINER_NAME | QUANTITY | UNIT_PRICE | DATE |
|---|---|---|---|---|
| 1 | round gallon | 1 | 125 | 2019-01-28 |
| 3 | round gallon | 1 | 125 | 2019-02-28 |
| 4 | round gallon | 1 | 125 | 2019-03-09 |
| 5 | round gallon | 1 | 125 | 2019-03-11 |
| 6 | gallon with faucet | 1 | 125 | 2019-02-14 |
| 7 | gallon with faucet | 1 | 125 | 2019-02-13 |
| 8 | Gallon with faucet | 1 | 125 | 2019-02-12 |

a. Solution

```
INSERT INTO `containers` (`CONTAINER_ID`, `CONTAINER_NAME`,
`QUANTITY`, `UNIT_PRICE`) VALUES ('11', 'round container', '10', '125');
```

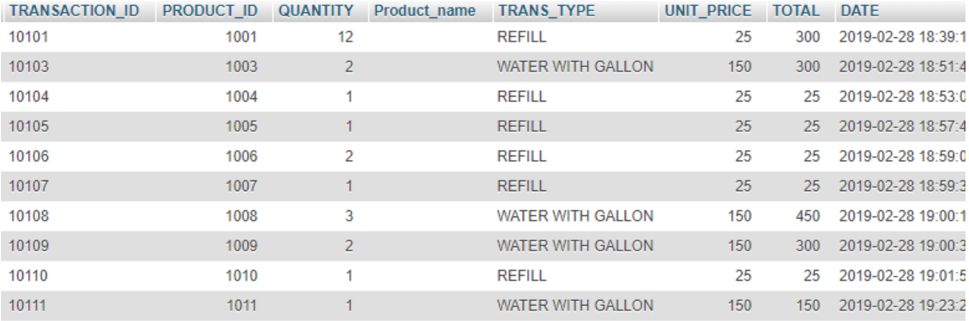
b. Result



| CONTAINER_ID | CONTAINER_NAME | QUANTITY | UNIT_PRICE |
|---|---|---|---|
| 1 | round gallon | 1 | 125 |
| 3 | round gallon | 1 | 125 |
| 4 | round gallon | 1 | 125 |
| 5 | round gallon | 1 | 125 |
| 6 | gallon with faucet | 1 | 125 |
| 7 | gallon with faucet | 1 | 125 |
| 8 | Gallon with faucet | 1 | 125 |
| 9 | bottle | 1 | 75 |
| 10 | bottle | 1 | 75 |
| 11 | round container | 10 | 125 |

1 Record(s) inserted.

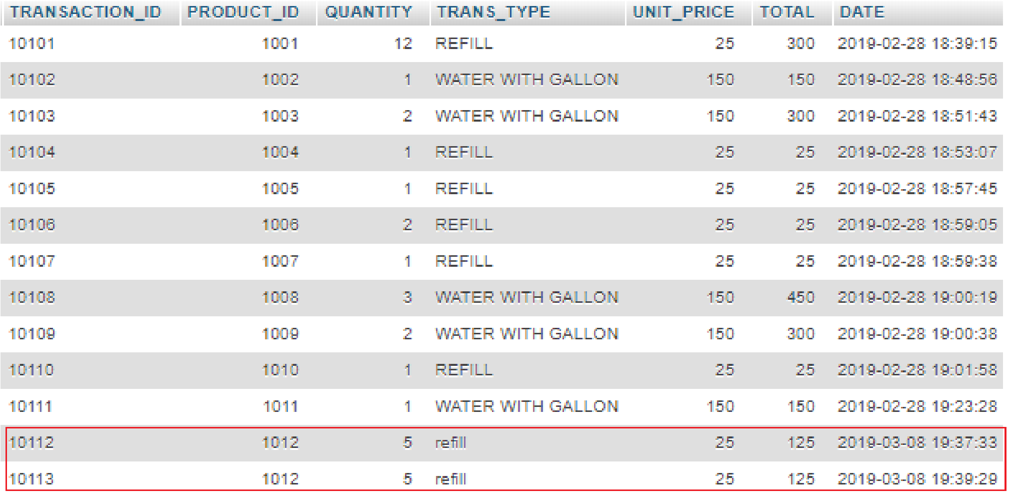
5. Create a query to insert new transaction such that transasction id is 10112, product id is 1012 ,quantity is 5, transaction type is refill, price is 25 and has a total cost of 125.



| TRANSACTION_ID | PRODUCT_ID | QUANTITY | Product_name | TRANS_TYPE | UNIT_PRICE | TOTAL | DATE |
|---|---|---|---|---|---|---|---|
| 10101 | 1001 | 12 | | REFILL | 25 | 300 | 2019-02-28 18:39:1 |
| 10103 | 1003 | 2 | | WATER WITH GALLON | 150 | 300 | 2019-02-28 18:51:4 |
| 10104 | 1004 | 1 | | REFILL | 25 | 25 | 2019-02-28 18:53:0 |
| 10105 | 1005 | 1 | | REFILL | 25 | 25 | 2019-02-28 18:57:4 |
| 10106 | 1006 | 2 | | REFILL | 25 | 25 | 2019-02-28 18:59:0 |
| 10107 | 1007 | 1 | | REFILL | 25 | 25 | 2019-02-28 18:59:3 |
| 10108 | 1008 | 3 | | WATER WITH GALLON | 150 | 450 | 2019-02-28 19:00:1 |
| 10109 | 1009 | 2 | | WATER WITH GALLON | 150 | 300 | 2019-02-28 19:00:3 |
| 10110 | 1010 | 1 | | REFILL | 25 | 25 | 2019-02-28 19:01:5 |
| 10111 | 1011 | 1 | | WATER WITH GALLON | 150 | 150 | 2019-02-28 19:23:2 |

a. Solution
INSERT INTO `transaction` (`TRANSACTION_ID`, `PRODUCT_ID`, `QUANTITY`, `TRANS_TYPE`, `UNIT_PRICE`, `TOTAL`, `DATE`) VALUES ('10112', '1012', '5', 'refill', '25', '125', CURRENT_TIMESTAMP);

b. Result

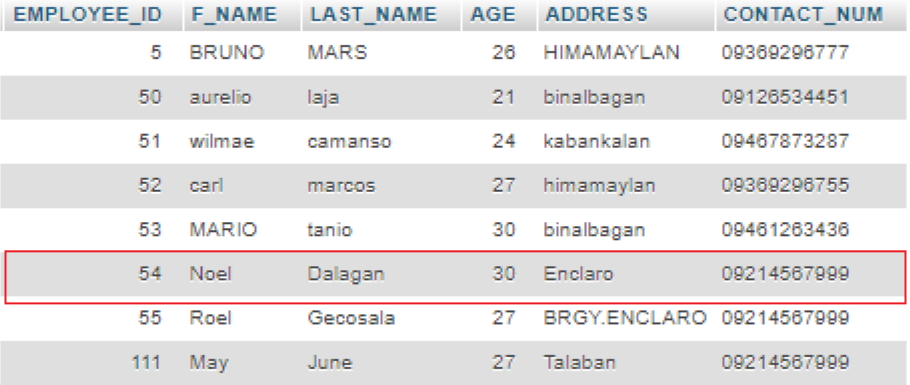


| TRANSACTION_ID | PRODUCT_ID | QUANTITY | TRANS_TYPE | UNIT_PRICE | TOTAL | DATE |
|---|---|---|---|---|---|---|
| 10101 | 1001 | 12 | REFILL | 25 | 300 | 2019-02-28 18:39:15 |
| 10102 | 1002 | 1 | WATER WITH GALLON | 150 | 150 | 2019-02-28 18:48:56 |
| 10103 | 1003 | 2 | WATER WITH GALLON | 150 | 300 | 2019-02-28 18:51:43 |
| 10104 | 1004 | 1 | REFILL | 25 | 25 | 2019-02-28 18:53:07 |
| 10105 | 1005 | 1 | REFILL | 25 | 25 | 2019-02-28 18:57:45 |
| 10106 | 1006 | 2 | REFILL | 25 | 25 | 2019-02-28 18:59:05 |
| 10107 | 1007 | 1 | REFILL | 25 | 25 | 2019-02-28 18:59:38 |
| 10108 | 1008 | 3 | WATER WITH GALLON | 150 | 450 | 2019-02-28 19:00:19 |
| 10109 | 1009 | 2 | WATER WITH GALLON | 150 | 300 | 2019-02-28 19:00:38 |
| 10110 | 1010 | 1 | REFILL | 25 | 25 | 2019-02-28 19:01:58 |
| 10111 | 1011 | 1 | WATER WITH GALLON | 150 | 150 | 2019-02-28 19:23:28 |
| 10112 | 1012 | 5 | refill | 25 | 125 | 2019-03-08 19:37:33 |
| 10113 | 1012 | 5 | refill | 25 | 125 | 2019-03-08 19:39:29 |

2 record(s) inserted.

## Update Statement

1. Create a query to change the last name of noel dalagan to delagon.

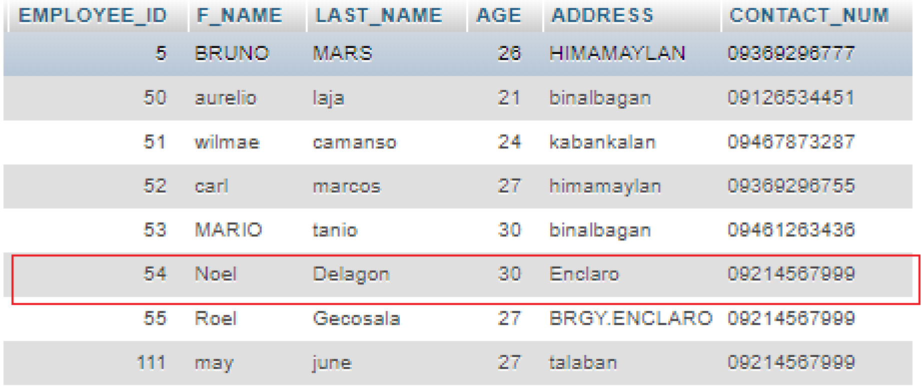


| EMPLOYEE_ID | F_NAME | LAST_NAME | AGE | ADDRESS | CONTACT_NUM |
|---|---|---|---|---|---|
| 5 | BRUNO | MARS | 26 | HIMAMAYLAN | 09369296777 |
| 50 | aurelio | laja | 21 | binalbagan | 09126534451 |
| 51 | wilmae | camanso | 24 | kabankalan | 09467873287 |
| 52 | carl | marcos | 27 | himamaylan | 09369296755 |
| 53 | MARIO | tanio | 30 | binalbagan | 09461263436 |
| 54 | Noel | Dalagan | 30 | Enclaro | 09214567999 |
| 55 | Roel | Gecosala | 27 | BRGY.ENCLARO | 09214567999 |
| 111 | May | June | 27 | Talaban | 09214567999 |

a. Solution

```
UPDATE `employee` SET `LAST_NAME` = 'Delagon', ` WHERE
`employee`.`EMPLOYEE_ID` = 54;
```

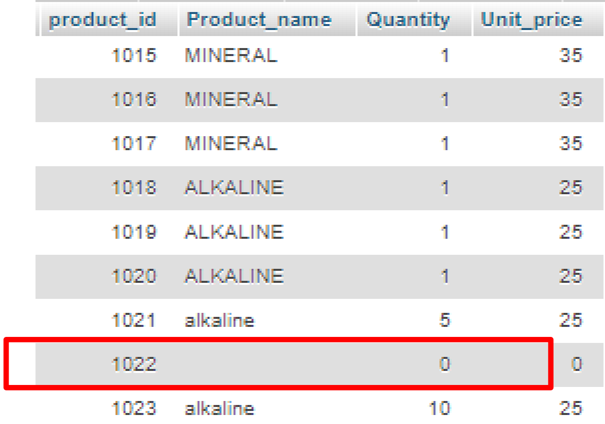
b. Result



| EMPLOYEE_ID | F_NAME | LAST_NAME | AGE | ADDRESS | CONTACT_NUM |
|---|---|---|---|---|---|
| 5 | BRUNO | MARS | 26 | HIMAMAYLAN | 09369296777 |
| 50 | aurelio | laja | 21 | binalbagan | 09126534451 |
| 51 | wilmae | camanso | 24 | kabankalan | 09467873287 |
| 52 | carl | marcos | 27 | himamaylan | 09369296755 |
| 53 | MARIO | tanio | 30 | binalbagan | 09461263436 |
| 54 | Noel | Delagon | 30 | Enclaro | 09214567999 |
| 55 | Roel | Gecosala | 27 | BRGY.ENCLARO | 09214567999 |
| 111 | may | june | 27 | talaban | 09214567999 |

1 Record(s) updated.

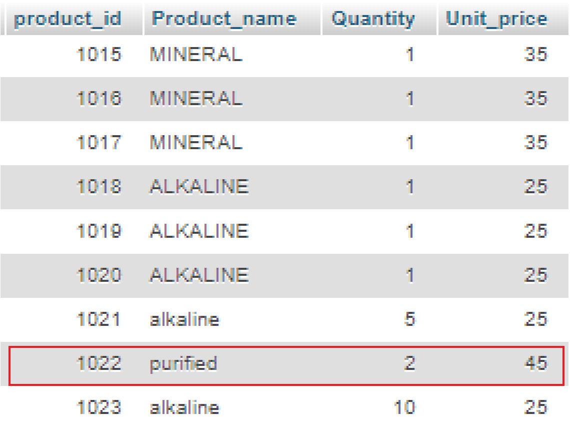
2. Create a query to change the information on the product id 1022 .



| product_id | Product_name | Quantity | Unit_price |
|---|---|---|---|
| 1015 | MINERAL | 1 | 35 |
| 1016 | MINERAL | 1 | 35 |
| 1017 | MINERAL | 1 | 35 |
| 1018 | ALKALINE | 1 | 25 |
| 1019 | ALKALINE | 1 | 25 |
| 1020 | ALKALINE | 1 | 25 |
| 1021 | alkaline | 5 | 25 |
| 1022 |  | 0 | 0 |
| 1023 | alkaline | 10 | 25 |

a. Solution
UPDATE `product` SET `Product_name` = 'purified', `Quantity` = '2', `Unit_price` = '45' WHERE `product`.`product_id` = 1022;

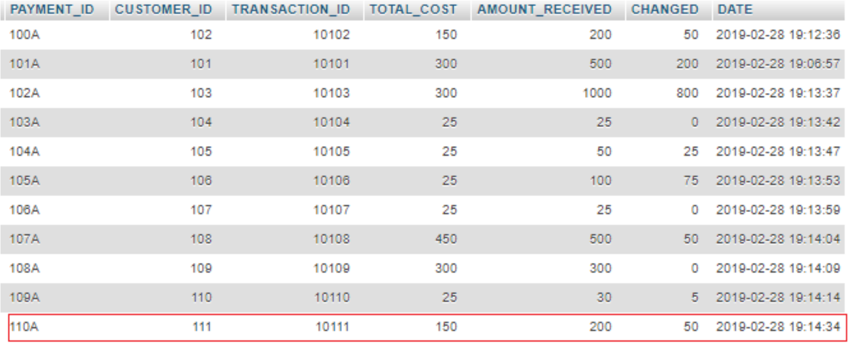
b. Result



| product_id | Product_name | Quantity | Unit_price |
|---|---|---|---|
| 1015 | MINERAL | 1 | 35 |
| 1016 | MINERAL | 1 | 35 |
| 1017 | MINERAL | 1 | 35 |
| 1018 | ALKALINE | 1 | 25 |
| 1019 | ALKALINE | 1 | 25 |
| 1020 | ALKALINE | 1 | 25 |
| 1021 | alkaline | 5 | 25 |
| 1022 | purified | 2 | 45 |
| 1023 | alkaline | 10 | 25 |

1 record(s) updated.

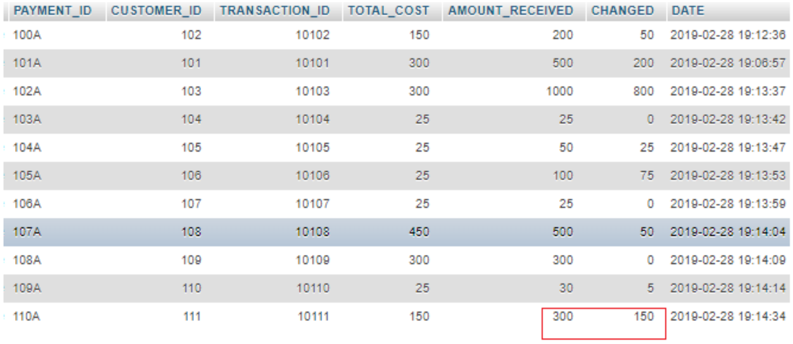
3. Write  a query to change the amount render by the customer having the payment id of 110A.



| PAYMENT_ID | CUSTOMER_ID | TRANSACTION_ID | TOTAL_COST | AMOUNT_RECEIVED | CHANGED | DATE |
|---|---|---|---|---|---|---|
| 100A | 102 | 10102 | 150 | 200 | 50 | 2019-02-28 19:12:36 |
| 101A | 101 | 10101 | 300 | 500 | 200 | 2019-02-28 19:06:57 |
| 102A | 103 | 10103 | 300 | 1000 | 800 | 2019-02-28 19:13:37 |
| 103A | 104 | 10104 | 25 | 25 | 0 | 2019-02-28 19:13:42 |
| 104A | 105 | 10105 | 25 | 50 | 25 | 2019-02-28 19:13:47 |
| 105A | 106 | 10106 | 25 | 100 | 75 | 2019-02-28 19:13:53 |
| 106A | 107 | 10107 | 25 | 25 | 0 | 2019-02-28 19:13:59 |
| 107A | 108 | 10108 | 450 | 500 | 50 | 2019-02-28 19:14:04 |
| 108A | 109 | 10109 | 300 | 300 | 0 | 2019-02-28 19:14:09 |
| 109A | 110 | 10110 | 25 | 30 | 5 | 2019-02-28 19:14:14 |
| 110A | 111 | 10111 | 150 | 200 | 50 | 2019-02-28 19:14:34 |

a. Solution
UPDATE `product` SET `Product_name` = 'purified', `Quantity` = '2', `Unit_price` = '45' WHERE `product`.`product_id` = 1022;

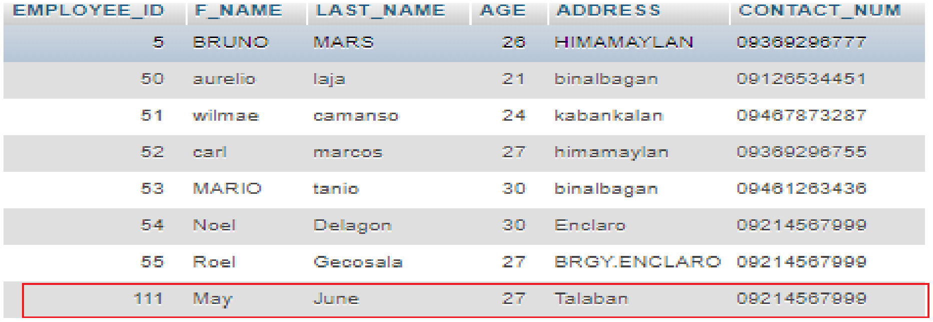
b. Result



| PAYMENT_ID | CUSTOMER_ID | TRANSACTION_ID | TOTAL_COST | AMOUNT_RECEIVED | CHANGED | DATE |
|---|---|---|---|---|---|---|
| 100A | 102 | 10102 | 150 | 200 | 50 | 2019-02-28 19:12:36 |
| 101A | 101 | 10101 | 300 | 500 | 200 | 2019-02-28 19:06:57 |
| 102A | 103 | 10103 | 300 | 1000 | 800 | 2019-02-28 19:13:37 |
| 103A | 104 | 10104 | 25 | 25 | 0 | 2019-02-28 19:13:42 |
| 104A | 105 | 10105 | 25 | 50 | 25 | 2019-02-28 19:13:47 |
| 105A | 106 | 10106 | 25 | 100 | 75 | 2019-02-28 19:13:53 |
| 106A | 107 | 10107 | 25 | 25 | 0 | 2019-02-28 19:13:59 |
| 107A | 108 | 10108 | 450 | 500 | 50 | 2019-02-28 19:14:04 |
| 108A | 109 | 10109 | 300 | 300 | 0 | 2019-02-28 19:14:09 |
| 109A | 110 | 10110 | 25 | 30 | 5 | 2019-02-28 19:14:14 |
| 110A | 111 | 10111 | 150 | 300 | 150 | 2019-02-28 19:14:34 |

1 Record(s) updated.

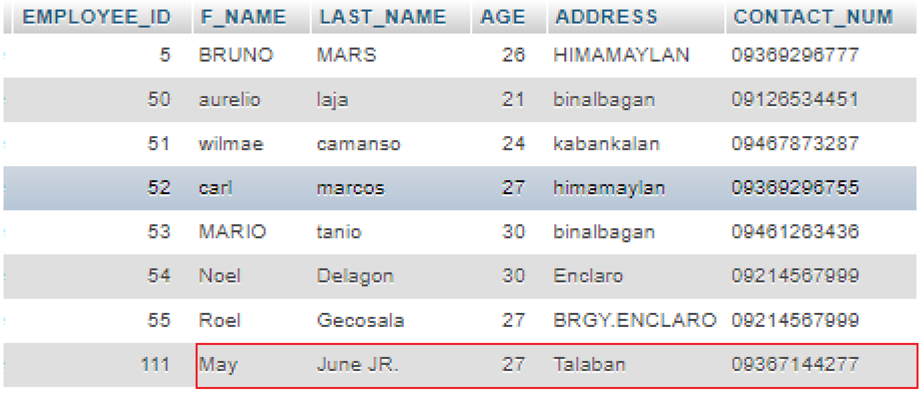
4. Create a query to change the contact number of the employee named May and add suffix on her name.



| EMPLOYEE_ID | F_NAME | LAST_NAME | AGE | ADDRESS | CONTACT_NUM |
|---|---|---|---|---|---|
| 5 | BRUNO | MARS | 26 | HIMAMAYLAN | 09369296777 |
| 50 | aurelio | laja | 21 | binalbagan | 09126534451 |
| 51 | wilmae | camanso | 24 | kabankalan | 09467873287 |
| 52 | carl | marcos | 27 | himamaylan | 09369296755 |
| 53 | MARIO | tanio | 30 | binalbagan | 09461263436 |
| 54 | Noel | Delagon | 30 | Enclaro | 09214567999 |
| 55 | Roel | Gecosala | 27 | BRGY.ENCLARO | 09214567999 |
| 111 | May | June | 27 | Talaban | 09214567999 |

a. Solution
UPDATE `employee` SET `F_NAME` = 'May', `LAST_NAME` = 'June JR.', `ADDRESS` = 'Talaban', `CONTACT_NUM` = '09367144277' WHERE `employee`.`EMPLOYEE_ID` = 111;

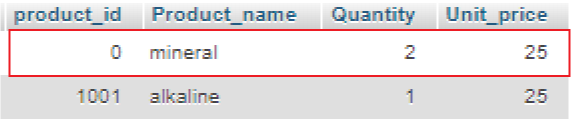
b. Result



| EMPLOYEE_ID | F_NAME | LAST_NAME | AGE | ADDRESS | CONTACT_NUM |
|---|---|---|---|---|---|
| 5 | BRUNO | MARS | 26 | HIMAMAYLAN | 09369296777 |
| 50 | aurelio | laja | 21 | binalbagan | 09126534451 |
| 51 | wilmae | camanso | 24 | kabankalan | 09467873287 |
| 52 | carl | marcos | 27 | himamaylan | 09369296755 |
| 53 | MARIO | tanio | 30 | binalbagan | 09461263436 |
| 54 | Noel | Delagon | 30 | Enclaro | 09214567999 |
| 55 | Roel | Gecosala | 27 | BRGY.ENCLARO | 09214567999 |
| 111 | May | June JR. | 27 | Talaban | 09367144277 |

1 record(s) updated

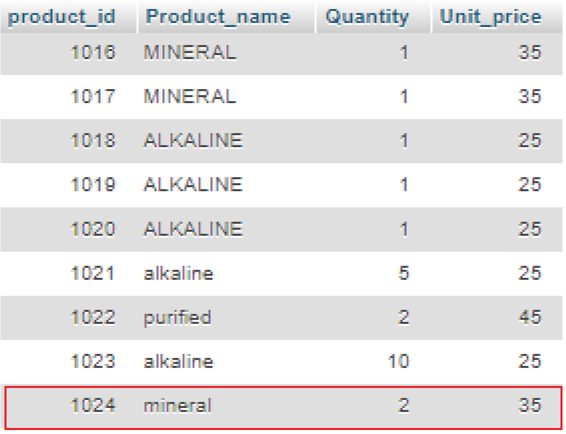
5. Create a query to change the product id and the price of the newly inserted product .



| product_id | Product_name | Quantity | Unit_price |
|---|---|---|---|
| 0 | mineral | 2 | 25 |
| 1001 | alkaline | 1 | 25 |

a. Solution
UPDATE `product` SET `product_id` = '1024', `Unit_price` = '35'
WHERE `product`.`product_id` = 0;

b. Result



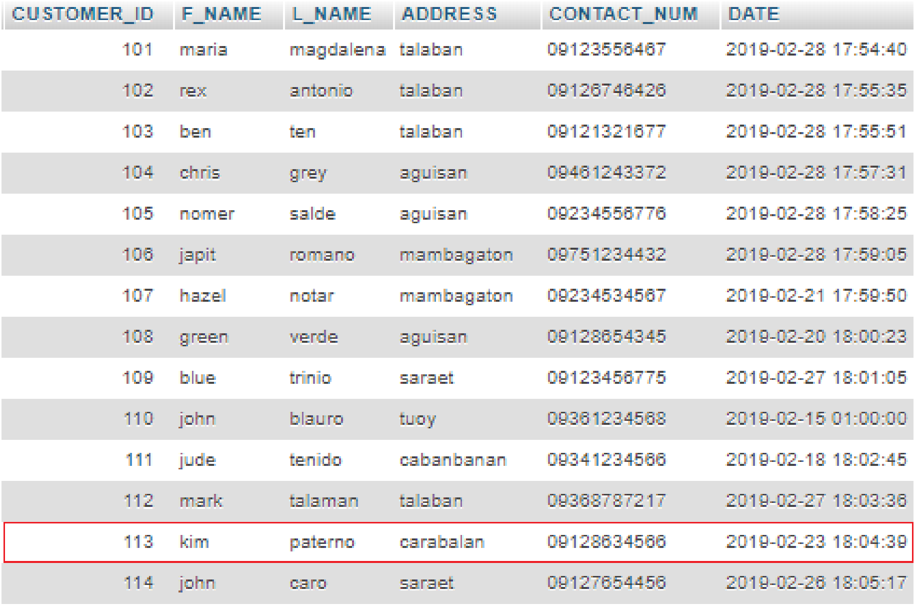
| product_id | Product_name | Quantity | Unit_price |
|---|---|---|---|
| 1016 | MINERAL | 1 | 35 |
| 1017 | MINERAL | 1 | 35 |
| 1018 | ALKALINE | 1 | 25 |
| 1019 | ALKALINE | 1 | 25 |
| 1020 | ALKALINE | 1 | 25 |
| 1021 | alkaline | 5 | 25 |
| 1022 | purified | 2 | 45 |
| 1023 | alkaline | 10 | 25 |
| 1024 | mineral | 2 | 35 |

1 Record(s) updated

\

### Delete Statement

1. Create a query to delete one data in customer record who transact on February 23, 2019.

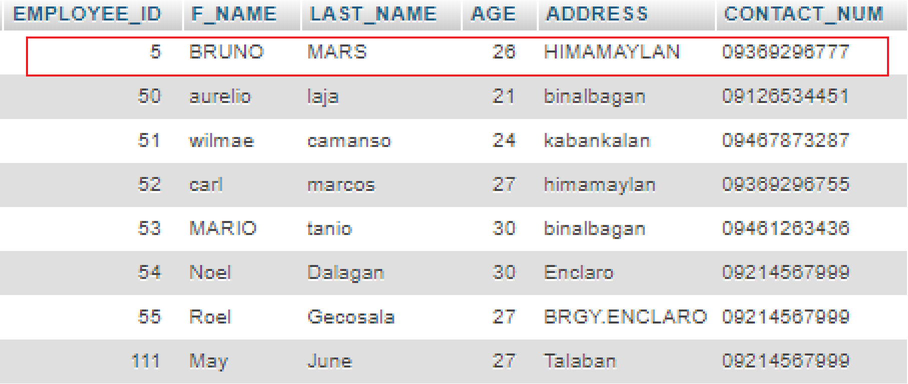


| CUSTOMER_ID | F_NAME | L_NAME | ADDRESS | CONTACT_NUM | DATE |
|---|---|---|---|---|---|
| 101 | maria | magdalena | talaban | 09123556467 | 2019-02-28 17:54:40 |
| 102 | rex | antonio | talaban | 09126746426 | 2019-02-28 17:55:35 |
| 103 | ben | ten | talaban | 09121321677 | 2019-02-28 17:55:51 |
| 104 | chris | grey | aguisan | 09461243372 | 2019-02-28 17:57:31 |
| 105 | nomer | salde | aguisan | 09234556776 | 2019-02-28 17:58:25 |
| 106 | japit | romano | mambagaton | 09751234432 | 2019-02-28 17:59:05 |
| 107 | hazel | notar | mambagaton | 09234534567 | 2019-02-21 17:59:50 |
| 108 | green | verde | aguisan | 09128654345 | 2019-02-20 18:00:23 |
| 109 | blue | trinio | saraet | 09123456775 | 2019-02-27 18:01:05 |
| 110 | john | blauro | tuoy | 09361234568 | 2019-02-15 01:00:00 |
| 111 | jude | tenido | cabanbanan | 09341234566 | 2019-02-18 18:02:45 |
| 112 | mark | talaman | talaban | 09368787217 | 2019-02-27 18:03:36 |
| 113 | kim | paterno | carabalan | 09128634566 | 2019-02-23 18:04:39 |
| 114 | john | caro | saraet | 09127654456 | 2019-02-26 18:05:17 |

a. Solution
DELETE FROM  customer WHERE DATE='2019-02-23'

b. Result
1 row(s) deleted.

2. Create a query to delete one employee.



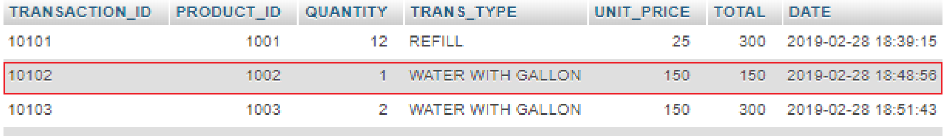
| EMPLOYEE_ID | F_NAME | LAST_NAME | AGE | ADDRESS | CONTACT_NUM |
|---|---|---|---|---|---|
| 5 | BRUNO | MARS | 26 | HIMAMAYLAN | 09369296777 |
| 50 | aurelio | laja | 21 | binalbagan | 09126534451 |
| 51 | wilmae | camanso | 24 | kabankalan | 09467873287 |
| 52 | carl | marcos | 27 | himamaylan | 09369296755 |
| 53 | MARIO | tanio | 30 | binalbagan | 09461263436 |
| 54 | Noel | Dalagan | 30 | Enclaro | 09214567999 |
| 55 | Roel | Gecosala | 27 | BRGY.ENCLARO | 09214567999 |
| 111 | May | June | 27 | Talaban | 09214567999 |

a. Solution
DELETE FROM  employee where employee_id=5;

b. Result

1 row(s) deleted

3. Write a query that will delete a one data on transaction.



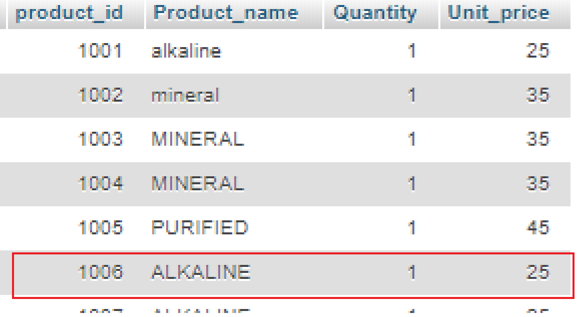
| TRANSACTION_ID | PRODUCT_ID | QUANTITY | TRANS_TYPE | UNIT_PRICE | TOTAL | DATE |
|---|---|---|---|---|---|---|
| 10101 | 1001 | 12 | REFILL | 25 | 300 | 2019-02-28 18:39:15 |
| 10102 | 1002 | 1 | WATER WITH GALLON | 150 | 150 | 2019-02-28 18:48:56 |
| 10103 | 1003 | 2 | WATER WITH GALLON | 150 | 300 | 2019-02-28 18:51:43 |

a. Solution
   DELETE FROM transaction WHERE PRODUCT_ID = 1002;

b. Result

   1 row(s) deleted.

4. Write a query that will remove the product has the product id of 1006.



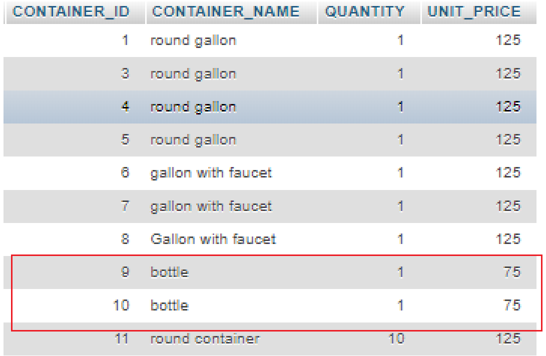
| product_id | Product_name | Quantity | Unit_price |
|---|---|---|---|
| 1001 | alkaline | 1 | 25 |
| 1002 | mineral | 1 | 35 |
| 1003 | MINERAL | 1 | 35 |
| 1004 | MINERAL | 1 | 35 |
| 1005 | PURIFIED | 1 | 45 |
| 1006 | ALKALINE | 1 | 25 |
| 1007 | ALKALINE | 1 | 25 |

a. Solution
   DELETE FROM product WHERE Product_name=1006;

b. Result

   1 row(s) deleted.

5. Remove the container named bottle .



| CONTAINER_ID | CONTAINER_NAME | QUANTITY | UNIT_PRICE |
|---|---|---|---|
| 1 | round gallon | 1 | 125 |
| 3 | round gallon | 1 | 125 |
| 4 | round gallon | 1 | 125 |
| 5 | round gallon | 1 | 125 |
| 6 | gallon with faucet | 1 | 125 |
| 7 | gallon with faucet | 1 | 125 |
| 8 | Gallon with faucet | 1 | 125 |
| 9 | bottle | 1 | 75 |
| 10 | bottle | 1 | 75 |
| 11 | round container | 10 | 125 |

a. Solution
   DELETE FROM containers WHERE CONTAINER_NAME='bottle';

b. Result

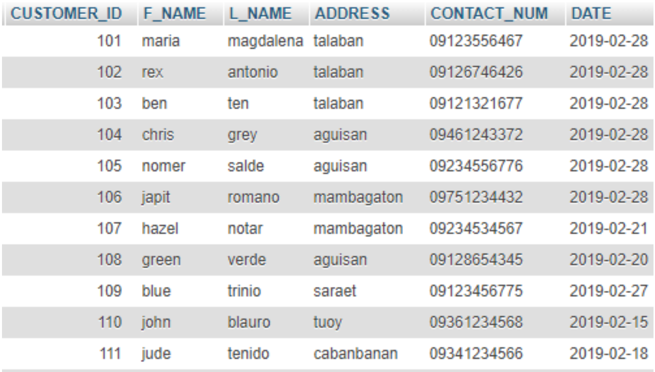
   2 row(s) deleted.

## Sample Records

1. Write a query to show all the records of customers.
a. Solution

```
SELECT * FROM `customer`;
```

b. Result



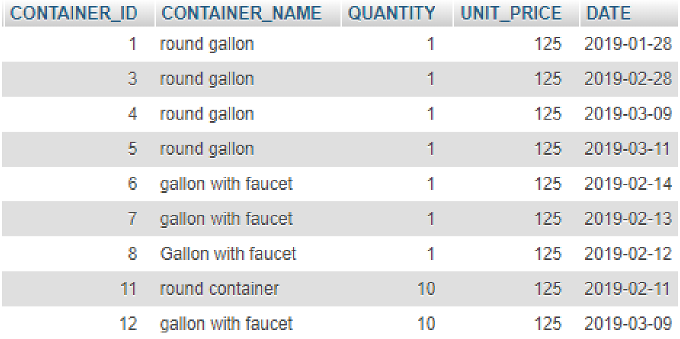
| CUSTOMER_ID | F_NAME | L_NAME | ADDRESS | CONTACT_NUM | DATE |
|---|---|---|---|---|---|
| 101 | maria | magdalena | talaban | 09123556467 | 2019-02-28 |
| 102 | rex | antonio | talaban | 09126746426 | 2019-02-28 |
| 103 | ben | ten | talaban | 09121321677 | 2019-02-28 |
| 104 | chris | grey | aguisan | 09461243372 | 2019-02-28 |
| 105 | nomer | salde | aguisan | 09234556776 | 2019-02-28 |
| 106 | japit | romano | mambagaton | 09751234432 | 2019-02-28 |
| 107 | hazel | notar | mambagaton | 09234534567 | 2019-02-21 |
| 108 | green | verde | aguisan | 09128654345 | 2019-02-20 |
| 109 | blue | trinio | saraet | 09123456775 | 2019-02-27 |
| 110 | john | blauro | tuoy | 09361234568 | 2019-02-15 |
| 111 | jude | tenido | cabanbanan | 09341234566 | 2019-02-18 |

21 result(s) found.

2. Write a query to show all the records of containers.
a. Solution

```
SELECT * FROM `containers`;
```

b. Result



| CONTAINER_ID | CONTAINER_NAME | QUANTITY | UNIT_PRICE | DATE |
|---|---|---|---|---|
| 1 | round gallon | 1 | 125 | 2019-01-28 |
| 3 | round gallon | 1 | 125 | 2019-02-28 |
| 4 | round gallon | 1 | 125 | 2019-03-09 |
| 5 | round gallon | 1 | 125 | 2019-03-11 |
| 6 | gallon with faucet | 1 | 125 | 2019-02-14 |
| 7 | gallon with faucet | 1 | 125 | 2019-02-13 |
| 8 | Gallon with faucet | 1 | 125 | 2019-02-12 |
| 11 | round container | 10 | 125 | 2019-02-11 |
| 12 | gallon with faucet | 10 | 125 | 2019-03-09 |

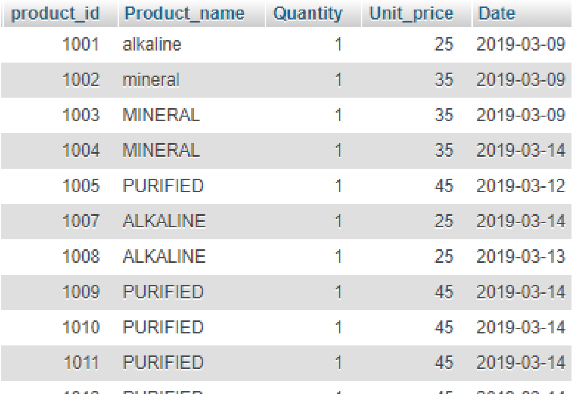
21 result(s) found.

3. Write a query to show all the records of product.

a. Solution

```
SELECT * FROM `product`;
```

b. Result



| product_id | Product_name | Quantity | Unit_price | Date |
|---|---|---|---|---|
| 1001 | alkaline | 1 | 25 | 2019-03-09 |
| 1002 | mineral | 1 | 35 | 2019-03-09 |
| 1003 | MINERAL | 1 | 35 | 2019-03-09 |
| 1004 | MINERAL | 1 | 35 | 2019-03-14 |
| 1005 | PURIFIED | 1 | 45 | 2019-03-12 |
| 1007 | ALKALINE | 1 | 25 | 2019-03-14 |
| 1008 | ALKALINE | 1 | 25 | 2019-03-13 |
| 1009 | PURIFIED | 1 | 45 | 2019-03-14 |
| 1010 | PURIFIED | 1 | 45 | 2019-03-14 |
| 1011 | PURIFIED | 1 | 45 | 2019-03-14 |

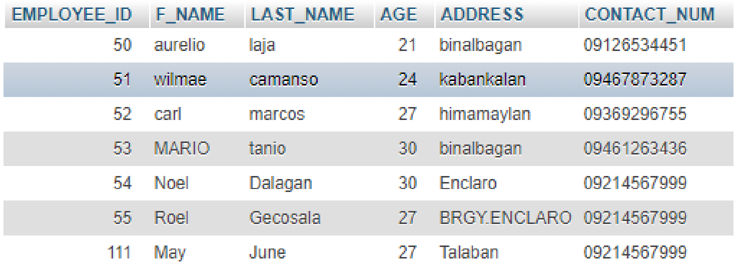
22 result(s) found.

4. Write a query to show all the records of employee.

a. Solution

```
SELECT * FROM `employee`;
```

b. Result



| EMPLOYEE_ID | F_NAME | LAST_NAME | AGE | ADDRESS | CONTACT_NUM |
|---|---|---|---|---|---|
| 50 | aurelio | laja | 21 | binalbagan | 09126534451 |
| 51 | wilmae | camanso | 24 | kabankalan | 09467873287 |
| 52 | carl | marcos | 27 | himamaylan | 09369296755 |
| 53 | MARIO | tanio | 30 | binalbagan | 09461263436 |
| 54 | Noel | Dalagan | 30 | Enclaro | 09214567999 |
| 55 | Roel | Gecosala | 27 | BRGY.ENCLARO | 09214567999 |
| 111 | May | June | 27 | Talaban | 09214567999 |

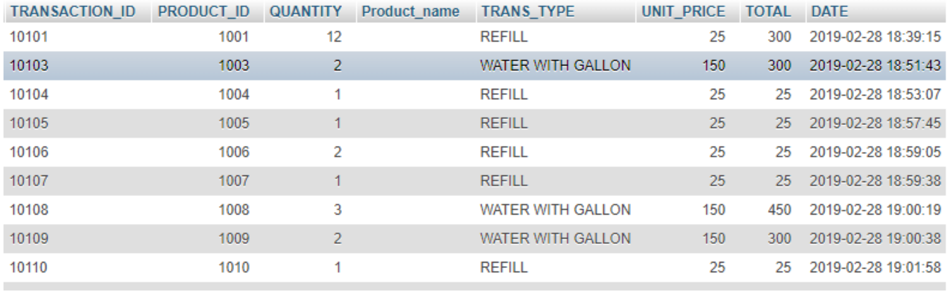
7 result(s) found.

5. Write a query to show all the records of transaction.

   a. Solution

   SELECT * FROM `transaction`;

   b. Result



| TRANSACTION_ID | PRODUCT_ID | QUANTITY | Product_name | TRANS_TYPE | UNIT_PRICE | TOTAL | DATE |
|---|---|---|---|---|---|---|---|
| 10101 | 1001 | 12 | | REFILL | 25 | 300 | 2019-02-28 18:39:15 |
| 10103 | 1003 | 2 | | WATER WITH GALLON | 150 | 300 | 2019-02-28 18:51:43 |
| 10104 | 1004 | 1 | | REFILL | 25 | 25 | 2019-02-28 18:53:07 |
| 10105 | 1005 | 1 | | REFILL | 25 | 25 | 2019-02-28 18:57:45 |
| 10106 | 1006 | 2 | | REFILL | 25 | 25 | 2019-02-28 18:59:05 |
| 10107 | 1007 | 1 | | REFILL | 25 | 25 | 2019-02-28 18:59:38 |
| 10108 | 1008 | 3 | | WATER WITH GALLON | 150 | 450 | 2019-02-28 19:00:19 |
| 10109 | 1009 | 2 | | WATER WITH GALLON | 150 | 300 | 2019-02-28 19:00:38 |
| 10110 | 1010 | 1 | | REFILL | 25 | 25 | 2019-02-28 19:01:58 |

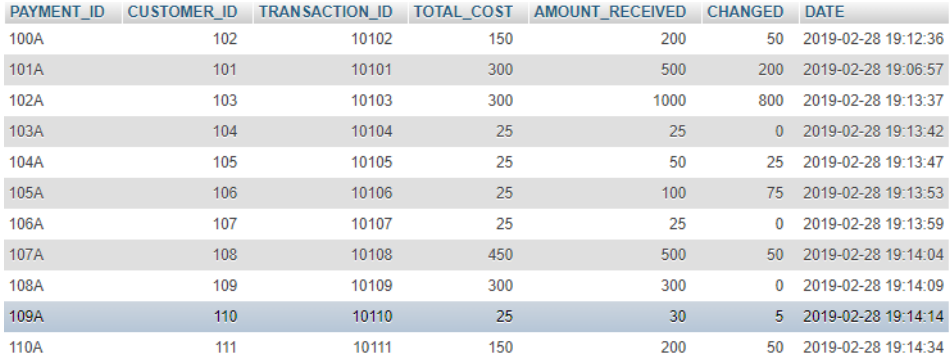
   12 result(s) found.

6. Write a query to show all the records of payment.

   a. Solution

   SELECT * FROM `payment`;

   b. Result



| PAYMENT_ID | CUSTOMER_ID | TRANSACTION_ID | TOTAL_COST | AMOUNT_RECEIVED | CHANGED | DATE |
|---|---|---|---|---|---|---|
| 100A | 102 | 10102 | 150 | 200 | 50 | 2019-02-28 19:12:36 |
| 101A | 101 | 10101 | 300 | 500 | 200 | 2019-02-28 19:06:57 |
| 102A | 103 | 10103 | 300 | 1000 | 800 | 2019-02-28 19:13:37 |
| 103A | 104 | 10104 | 25 | 25 | 0 | 2019-02-28 19:13:42 |
| 104A | 105 | 10105 | 25 | 50 | 25 | 2019-02-28 19:13:47 |
| 105A | 106 | 10106 | 25 | 100 | 75 | 2019-02-28 19:13:53 |
| 106A | 107 | 10107 | 25 | 25 | 0 | 2019-02-28 19:13:59 |
| 107A | 108 | 10108 | 450 | 500 | 50 | 2019-02-28 19:14:04 |
| 108A | 109 | 10109 | 300 | 300 | 0 | 2019-02-28 19:14:09 |
| 109A | 110 | 10110 | 25 | 30 | 5 | 2019-02-28 19:14:14 |
| 110A | 111 | 10111 | 150 | 200 | 50 | 2019-02-28 19:14:34 |

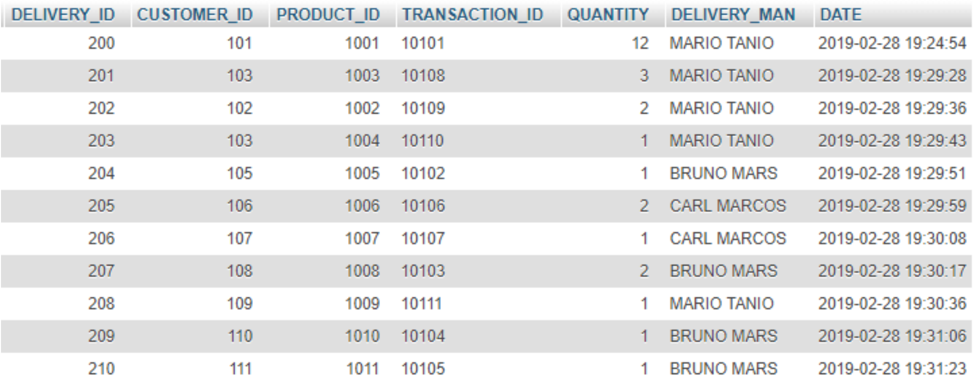
   11 result(s) found.

7. Write a query to show all the records of delivery.

   a. Solution

   SELECT * FROM `delivery`;

   b. Result



| DELIVERY_ID | CUSTOMER_ID | PRODUCT_ID | TRANSACTION_ID | QUANTITY | DELIVERY_MAN | DATE |
|---:|---:|---:|---|---:|---|---|
| 200 | 101 | 1001 | 10101 | 12 | MARIO TANIO | 2019-02-28 19:24:54 |
| 201 | 103 | 1003 | 10108 | 3 | MARIO TANIO | 2019-02-28 19:29:28 |
| 202 | 102 | 1002 | 10109 | 2 | MARIO TANIO | 2019-02-28 19:29:36 |
| 203 | 103 | 1004 | 10110 | 1 | MARIO TANIO | 2019-02-28 19:29:43 |
| 204 | 105 | 1005 | 10102 | 1 | BRUNO MARS | 2019-02-28 19:29:51 |
| 205 | 106 | 1006 | 10106 | 2 | CARL MARCOS | 2019-02-28 19:29:59 |
| 206 | 107 | 1007 | 10107 | 1 | CARL MARCOS | 2019-02-28 19:30:08 |
| 207 | 108 | 1008 | 10103 | 2 | BRUNO MARS | 2019-02-28 19:30:17 |
| 208 | 109 | 1009 | 10111 | 1 | MARIO TANIO | 2019-02-28 19:30:36 |
| 209 | 110 | 1010 | 10104 | 1 | BRUNO MARS | 2019-02-28 19:31:06 |
| 210 | 111 | 1011 | 10105 | 1 | BRUNO MARS | 2019-02-28 19:31:23 |

11 result(s) found.