ELECTRONICS SHOP DATABASE MANAGEMENT SYSTEM

A electronic product shop , sell new product of electronics of various brands at wholesale level to customers. And maintain all the records of all customers includes their name, address, contact details , etc. and details of new product which includes its srno, brand, etc.

Tables creation and data dictionary:

Create table 1. Electronicsshop

```
MariaDB [casestudy]> desc electronicsshop;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| srno     | int(11)     | NO   | PRI | NULL    |       |
| product  | varchar(60) | NO   |     | NULL    |       |
| brand    | varchar(50) | NO   |     | NULL    |       |
| unitsold | int(11)     | NO   |     | NULL    |       |
| price    | int(11)     | NO   |     | NULL    |       |
| stock    | int(11)     | NO   |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
6 rows in set (0.014 sec)
```

2. employee

```
MariaDB [casestudy]> desc employee;
+-----------------+-------------+------+-----+---------+-------+
| Field           | Type        | Null | Key | Default | Extra |
+-----------------+-------------+------+-----+---------+-------+
| srno            | int(11)     | NO   | PRI | NULL    |       |
| id              | int(11)     | NO   |     | NULL    |       |
| name            | varchar(50) | NO   |     | NULL    |       |
| phone           | varchar(20) | NO   | UNI | NULL    |       |
| email           | varchar(30) | NO   | UNI | NULL    |       |
| date_of_joining | varchar(20) | YES  |     | NULL    |       |
| soldto          | int(11)     | NO   |     | NULL    |       |
+-----------------+-------------+------+-----+---------+-------+
7 rows in set (0.010 sec)
```

3. customers

```
MariaDB [casestudy]> select * from customers;
+------+-------------+----------------+-------------------+----------+----------------+----------+
| srno | customer_id | customer_name  | address           | city     | state          | zip_code |
+------+-------------+----------------+-------------------+----------+----------------+----------+
| 2331 |        2251 | rajesh pandey  | tirupati apt 112  | kalyan   | maharashtra    | 421103   |
| 3265 |        6632 | arvind shukla  | sunkuraman street | chennai  | tamil nadu     | 600001   |
| 4311 |        3366 | ravindra       | jayram market     | bhopal   | madhya pradesh | 455066   |
| 5464 |        6655 | rohan patil    | krishna apt 502   | thane    | maharashtra    | 421502   |
| 5522 |        7582 | suraj singh    | tilak road        | jaipur   | rajasthan      | 650006   |
| 5523 |        2666 | yagnesh mishra | sb-24 race course | vadodara | gujarat        | 3822660  |
| 7651 |        2365 | jagdish patel  | near gandhi park  | surat    | gujarat        | 380001   |
+------+-------------+----------------+-------------------+----------+----------------+----------+
7 rows in set (0.000 sec)
```

INSERTING VALUES IN TABLES:

Inserting values into electronicsshop;

```
MariaDB [casestudy]> select * from employee;
+------+-----+-------------------+------------+-----------------+-----------------+--------+
| srno | id  | name              | phone      | email           | date_of_joining | soldto |
+------+-----+-------------------+------------+-----------------+-----------------+--------+
|    1 | 110 | Yogesh Vaishnav   | 8989656522 | yogesh@mail.com | 2019-10-03      | 2251   |
|    2 | 111 | vishal vishwakarma| 9865459782 | vishal@mail.com | 2018-12-11      | 2365   |
|    3 | 112 | ajit yadav        | 7556565680 | ajit@mail.com   | 2018-12-11      | 3366   |
|    4 | 113 | ashish singh      | 9896334580 | ashish@mail.com | 2020-06-03      | 6655   |
|    5 | 114 | tanvi thakur      | 8896234502 | tanvi@mail.com  | 2021-07-11      | 7582   |
|    6 | 115 | priya gupta       | 9638521470 | priya@mail.com  | 2019-07-01      | 2666   |
+------+-----+-------------------+------------+-----------------+-----------------+--------+
6 rows in set (0.000 sec)
```

Inserting values into employee;

```
MariaDB [casestudy]> select * from employee;
+------+-----+-------------------+------------+-----------------+-----------------+--------+
| srno | id  | name              | phone      | email           | date_of_joining | soldto |
+------+-----+-------------------+------------+-----------------+-----------------+--------+
|    1 | 110 | Yogesh Vaishnav   | 8989656522 | yogesh@mail.com | 2019-10-03      | 2251   |
|    2 | 111 | vishal vishwakarma| 9865459782 | vishal@mail.com | 2018-12-11      | 2365   |
|    3 | 112 | ajit yadav        | 7556565680 | ajit@mail.com   | 2018-12-11      | 3366   |
|    4 | 113 | ashish singh      | 9896334580 | ashish@mail.com | 2020-06-03      | 6655   |
|    5 | 114 | tanvi thakur      | 8896234502 | tanvi@mail.com  | 2021-07-11      | 7582   |
|    6 | 115 | priya gupta       | 9638521470 | priya@mail.com  | 2019-07-01      | 2666   |
+------+-----+-------------------+------------+-----------------+-----------------+--------+
6 rows in set (0.000 sec)
```

Inserting values into customers;

```
MariaDB [casestudy]> select * from customers;
+------+-------------+---------------+-------------------+----------+----------------+----------+
| srno | customer_id | customer_name | address           | city     | state          | zip_code |
+------+-------------+---------------+-------------------+----------+----------------+----------+
| 2331 |        2251 | rajesh pandey | tirupati apt 112  | kalyan   | maharashtra    | 421103   |
| 3265 |        6632 | arvind shukla | sunkuraman street | chennai  | tamil nadu     | 600001   |
| 4311 |        3366 | ravindra      | jayram market     | bhopal   | madhya pradesh | 455066   |
| 5464 |        6655 | rohan patil   | krishna apt 502   | thane    | maharashtra    | 421502   |
| 5522 |        7582 | suraj singh   | tilak road        | jaipur   | rajasthan      | 650006   |
| 5523 |        2666 | yagnesh mishra| sb-24 race course | vadodara | gujarat        | 3822660  |
| 7651 |        2365 | jagdish patel | near gandhi park  | surat    | gujarat        | 380001   |
+------+-------------+---------------+-------------------+----------+----------------+----------+
7 rows in set (0.000 sec)
```

1) Using foreign key between electronicsshop and customers

```
MariaDB [casestudy]> alter table customers add foreign key (srno) references electronicsshop(srno);
Query OK, 7 rows affected (0.047 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

2) City count

```
MariaDB [casestudy]> select (select count(city) from customers where city='kalyan') as cust_count;
+------------+
| cust_count |
+------------+
|          1 |
+------------+
1 row in set (0.007 sec)
```

3) Inner joins

```
MariaDB [casestudy]> select * from customers, electronicsshop
    -> where customers.srno = electronicsshop.srno;
+------+-------------+----------------+-------------------+----------+----------------+----------+------+---------------+-----------+--
-------+-------+-------+
| srno | customer_id | customer_name  | address           | city     | state          | zip_code | srno | product       | brand     | u
nitsold | price | stock |
+------+-------------+----------------+-------------------+----------+----------------+----------+------+---------------+-----------+--
-------+-------+-------+
| 2331 |        2251 | rajesh pandey  | tirupati apt 112  | kalyan   | maharashtra    | 421103   | 2331 | earphones     | boat      |
 15000 |  1000 | 20000 |
| 3265 |        6632 | arvind shukla  | sunkuraman street | chennai  | tamil nadu     | 600001   | 3265 | Laptops       | HCL       |
   400 | 55000 |   450 |
| 4311 |        3366 | ravindra       | jayram market     | bhopal   | madhya pradesh | 455066   | 4311 | Hard Disks    | Intel     |
  1500 |  5700 |  2000 |
| 5464 |        6655 | rohan patil    | krishna apt 502   | thane    | maharashtra    | 421502   | 5464 | chargers      | zebronics |
 10000 |   500 |  4000 |
| 5522 |        7582 | suraj singh    | tilak road        | jaipur   | rajasthan      | 650006   | 5522 | mobile phones | samsung   |
 20000 | 14000 | 33000 |
| 5523 |        2666 | yagnesh mishra | sb-24 race course | vadodara | gujarat        | 3822660  | 5523 | Monitors      | Lenovo    |
  1000 | 25000 |   500 |
| 7651 |        2365 | jagdish patel  | near gandhi park  | surat    | gujarat        | 380001   | 7651 | usb drives    | sand disk |
 21000 |   900 |  7000 |
+------+-------------+----------------+-------------------+----------+----------------+----------+------+---------------+-----------+--
-------+-------+-------+
```

4) Left joins.

```
+------+----------------+-------+
| srno | customer_name  | price |
+------+----------------+-------+
| 2331 | rajesh pandey  |  1000 |
| 3265 | arvind shukla  | 55000 |
| 4311 | ravindra       |  5700 |
| 5464 | rohan patil    |   500 |
| 5522 | suraj singh    | 14000 |
| 5523 | yagnesh mishra | 25000 |
| 7651 | jagdish patel  |   900 |
+------+----------------+-------+
7 rows in set (0.001 sec)
```

7).select * from customers where city = 'thane';

```
MariaDB [casestudy]> select * from customers where city = 'thane';
+------+-------------+---------------+-----------------+-------+-------------+----------+
| srno | customer_id | customer_name | address         | city  | state       | zip_code |
+------+-------------+---------------+-----------------+-------+-------------+----------+
| 5464 |        6655 | rohan patil   | krishna apt 502 | thane | maharashtra | 421502   |
+------+-------------+---------------+-----------------+-------+-------------+----------+
1 row in set (0.018 sec)
```

8).select customer_name as name from customers ;

  .select name as employee_name from employee;

```
MariaDB [casestudy]> select customer_name as name from customers;
+----------------+
| name           |
+----------------+
| rajesh pandey  |
| arvind shukla  |
| ravindra       |
| rohan patil    |
| suraj singh    |
| yagnesh mishra |
| jagdish patel  |
+----------------+
7 rows in set (0.000 sec)

MariaDB [casestudy]> select name as employee_name from employee;
+--------------------+
| employee_name      |
+--------------------+
| Yogesh Vaishnav    |
| vishal vishwakarma |
| ajit yadav         |
| ashish singh       |
| tanvi thakur       |
| priya gupta        |
+--------------------+
6 rows in set (0.001 sec)
```