INSTITUTE OF INFORMATION TECHNOLOGY

JAHANGIRNAGAR UNIVERSITY

Number of Assignment : 01

Submission Date   : 30/11/2020

Course Tittle   : Database Management System Lab

Course Code   : ICT - 2204

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Roll – 2023

2nd year 2nd Semester

IIT – JU

Creating Order Table

```
mysql> create table Order_shakil_2023(Order_ID varchar(10), Cust_ID varchar(5), Ord
er_date date, Purcharse_amount int(10),No_of_item int(10), primary key(Order_ID));
Query OK, 0 rows affected (0.17 sec)

mysql> describe Order_shakil_2023;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| Order_ID         | varchar(10) | NO   | PRI | NULL    |       |
| Cust_ID          | varchar(5)  | YES  |     | NULL    |       |
| Order_date       | date        | YES  |     | NULL    |       |
| Purcharse_amount | int(10)     | YES  |     | NULL    |       |
| No_of_item       | int(10)     | YES  |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
5 rows in set (0.02 sec)

mysql> insert into Order_shakil_2023 values ("O-1", "C-1", "2018-12-01", 20000, 4),
("O-2", "C-1", "2018-12-01", 30000, 3),("O-3", "C-2", "2018-01-23", 17000, 10),("O-
4", "C-2", "2018-12-01",5000, 9),("O-5", "C-3", "2018-12-01",5000, 12),("O-6", "C-4
", "2018-07-25",4000, 6);
Query OK, 6 rows affected (0.00 sec)
Records: 6  Duplicates: 0  Warnings: 0

mysql> select *from Order_shakil_2023;
+----------+---------+------------+------------------+------------+
| Order_ID | Cust_ID | Order_date | Purcharse_amount | No_of_item |
+----------+---------+------------+------------------+------------+
| O-1      | C-1     | 2018-12-01 |            20000 |          4 |
| O-2      | C-1     | 2018-12-01 |            30000 |          3 |
| O-3      | C-2     | 2018-01-23 |            17000 |         10 |
| O-4      | C-2     | 2018-12-01 |             5000 |          9 |
| O-5      | C-3     | 2018-12-01 |             5000 |         12 |
| O-6      | C-4     | 2018-07-25 |             4000 |          6 |
+----------+---------+------------+------------------+------------+
6 rows in set (0.00 sec)
```

Creating Customers Table :

```
mysql> create table customer_shakil_2023(Cust_ID varchar(10), Cust_name varchar(20)
, Cust_country varchar(15));
Query OK, 0 rows affected (0.10 sec)

mysql> describe customer_shakil_2023;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| Cust_ID      | varchar(10) | YES  |     | NULL    |       |
| Cust_name    | varchar(20) | YES  |     | NULL    |       |
| Cust_country | varchar(15) | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> insert into customer_shakil_2023 values ("C-1", "Badshah", "India"),("C-2",
"Ayesha", "Bangladesh"), ("C-3", "Robert", "England"), ("C-4", "Darwin", "England")
, ("C-5", "Danish", "USA"), ("C-6", "Sohel", "Bangladesh");
Query OK, 6 rows affected (0.00 sec)
Records: 6  Duplicates: 0  Warnings: 0

mysql> select *from customer_shakil_2023;
+---------+-----------+--------------+
| Cust_ID | Cust_name | Cust_country |
+---------+-----------+--------------+
| C-1     | Badshah   | India        |
| C-2     | Ayesha    | Bangladesh   |
| C-3     | Robert    | England      |
| C-4     | Darwin    | England      |
| C-5     | Danish    | USA          |
| C-6     | Sohel     | Bangladesh   |
+---------+-----------+--------------+
6 rows in set (0.00 sec)
```

Shippers Table :

```
mysql> create table shippers_shakil_2023 (Shipper_ID varchar(5), Shipper_name varch
ar(10), Shipper_country varchar(10), Order_ID varchar(5));
Query OK, 0 rows affected (0.10 sec)

mysql> describe shippers_shakil_2023;
+-----------------+-------------+------+-----+---------+-------+
| Field           | Type        | Null | Key | Default | Extra |
+-----------------+-------------+------+-----+---------+-------+
| Shipper_ID      | varchar(5)  | YES  |     | NULL    |       |
| Shipper_name    | varchar(10) | YES  |     | NULL    |       |
| Shipper_country | varchar(10) | YES  |     | NULL    |       |
| Order_ID        | varchar(5)  | YES  |     | NULL    |       |
+-----------------+-------------+------+-----+---------+-------+
4 rows in set (0.04 sec)

mysql> insert into shippers_shakil_2023 values ("S-1", "Amazon", "England", "O-5"),
("S-1", "Ocean-12", "India", "O-1"), ("S-2", "Ocean-11", "USA", "O-3"), ("S-3", "Am
azon", "England", "O-6");
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0

mysql> select *from shippers_shakil_2023;
+------------+-------------+-----------------+----------+
| Shipper_ID | Shipper_name | Shipper_country | Order_ID |
+------------+-------------+-----------------+----------+
| S-1        | Amazon      | England         | O-5      |
| S-1        | Ocean-12    | India           | O-1      |
| S-2        | Ocean-11    | USA             | O-3      |
| S-3        | Amazon      | England         | O-6      |
+------------+-------------+-----------------+----------+
4 rows in set (0.00 sec)
```

Answer - 1 :

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe

mysql> select sum(Purcharse_amount) from Order_shakil_2023;
+-----------------------+
| sum(Purcharse_amount) |
+-----------------------+
|                 81000 |
+-----------------------+
1 row in set (0.07 sec)
```

Answer - 2:

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe

mysql> select avg(Purcharse_amount) from Order_shakil_2023;
+-----------------------+
| avg(Purcharse_amount) |
+-----------------------+
|            13500.0000 |
+-----------------------+
1 row in set (0.00 sec)
```

Answer - 3:

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe

mysql> select cust_id, sum(No_of_item) from Order_shakil_2023 group by cust_id;
+---------+-----------------+
| cust_id | sum(No_of_item) |
+---------+-----------------+
| C-1     |               7 |
| C-2     |              19 |
| C-3     |              12 |
| C-4     |               6 |
+---------+-----------------+
4 rows in set (0.55 sec)
```

Answer - 4 :

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe                    —    □    X

mysql> select ot.cust_id, ct.cust_name, Count(ot.Order_ID) as "Number of Order"
    -> from order_shakil_2023 as ot
    -> join customer_shakil_2023 as ct using(cust_id)
    -> group by cust_id;
+---------+-----------+-----------------+
| cust_id | cust_name | Number of Order |
+---------+-----------+-----------------+
| C-1     | Badshah   |               2 |
| C-2     | Ayesha    |               2 |
| C-3     | Robert    |               1 |
| C-4     | Darwin    |               1 |
+---------+-----------+-----------------+
4 rows in set (0.15 sec)
```

Answer - 5 :

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe                    —    □    X

mysql> select Order_ID from Order_shakil_2023 where Purcharse_amount
> (select avg(Purcharse_amount) from Order_shakil_2023);
+----------+
| Order_ID |
+----------+
| O-3      |
+----------+
1 row in set (0.00 sec)
```

Answer - 6:

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe                    —    □    X

mysql> select max(purcharse_amount) from Order_shakil_2023;
+-----------------------+
| max(purcharse_amount) |
+-----------------------+
|                 17000 |
+-----------------------+
1 row in set (0.02 sec)
```

Answer - 7 :

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe          —    □    X

mysql> select min(purcharse_amount) from Order_shakil_2023;
+-----------------------+
| min(purcharse_amount) |
+-----------------------+
|                  2000 |
+-----------------------+
1 row in set (0.00 sec)
```

Answer - 8:

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe          —    □    X

mysql> select cust_ID, count(order_id) as "Order_number", max(Purcharse
_amount) as "Maximum purcharse" from order_shakil_2023 group by Cust_ID
having count(Cust_ID)>1;
+---------+--------------+-------------------+
| cust_ID | Order_number | Maximum purcharse |
+---------+--------------+-------------------+
| C-1     |            2 |              3000 |
| C-2     |            2 |             17000 |
+---------+--------------+-------------------+
2 rows in set (0.00 sec)
```

Answer - 9:

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe          —    □    X

mysql> select max(purcharse_amount) from Order_shakil_2023 where orde
r_date = '2018-12-01';
+-----------------------+
| max(purcharse_amount) |
+-----------------------+
|                  5000 |
+-----------------------+
1 row in set (0.03 sec)
```

Answer - 10 :

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe                    —    □    ×

mysql> select Cust_id, Order_date , max(purcharse_amount) from Order_shakil
_2023 group by cust_id,Order_date having max(purcharse_amount)>2000;
+----------+------------+-----------------------+
| Cust_id  | Order_date | max(purcharse_amount) |
+----------+------------+-----------------------+
| C-1      | 2018-12-01 |                  3000 |
| C-2      | 2018-01-23 |                 17000 |
| C-2      | 2018-12-01 |                  5000 |
| C-3      | 2018-12-01 |                  5000 |
| C-4      | 2018-07-25 |                  4000 |
+----------+------------+-----------------------+
5 rows in set (0.10 sec)
```

Answer - 11:

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe                    —    □    ×

mysql> select Cust_country, count(cust_name) from customer_shakil_2023 group
by cust_country;
+--------------+------------------+
| Cust_country | count(cust_name) |
+--------------+------------------+
| Bangladesh   |                2 |
| England      |                2 |
| India        |                1 |
| USA          |                1 |
+--------------+------------------+
4 rows in set (0.00 sec)
```

Answer - 12:

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe                     —    □    X

mysql> select order_date, count(order_id) from order_shakil_2023 group
 by order_date;
+------------+-----------------+
| order_date | count(order_id) |
+------------+-----------------+
| 2018-01-23 |               1 |
| 2018-07-25 |               1 |
| 2018-12-01 |               4 |
+------------+-----------------+
3 rows in set (0.04 sec)
```

Answer - 13:

```
c:\wamp64\bin\mysql\mysql5.7.19\bin\mysql.exe                     —    □    X

mysql> select order_ID from Order_shakil_2023 where Purcharse_amount
 >= 4000;
+----------+
| order_ID |
+----------+
| O-3      |
| O-4      |
| O-5      |
| O-6      |
+----------+
4 rows in set (0.00 sec)
```