

Group B Assignment 2

Dear Students,

Do the following task

Manage Data into the above tables using Insert, Select, Update, Delete with operators, functions, and set operator. And Execute queries like

- Display all the Purchase orders of a specific Customer.
- Get Customer and Data Item Information for a Specific Purchase Order.
- Get the Total Value of Purchase Orders.
- List the Purchase Orders in descending order as per total.
- Display the name of customers whose first name starts with “Rav”. (String matching :Like operator)
- Display the name of customer whose order amount is greater than all the customers. (Relational Operator: <, >, <=, >=, =, !=)
- Display order details of customer whose city name is “Pune” and purchase date is “22/08/2016” (Boolean Operators: and, or)
- Add discount of 5% to all the customers whose order is more than Rs. 10000/-. (Arithmetic Operators +, -, *, /)
- Delete Purchase Order 1001.

Tables:

```
Activities Terminal Sep 4 11:40 AM
mihir@pop-os: ~/Desktop

mysql> show tables;
+-----+
| Tables_in_a1 |
+-----+
| customer      |
| delivery      |
| orders        |
| orders_product |
| product       |
+-----+
5 rows in set (0.00 sec)

mysql> select * from customer;
+-----+
| c_id | c_name | c_mobile | c_city | c_state | c_email |
+-----+
| 1 | anish | 111 | pune | maharashtra | anish@gmail.com |
| 2 | bhumi | 222 | mumbai | maharashtra | bhumi@gmail.com |
| 3 | daniel | 333 | mumbai | maharashtra | daniel@gmail.com |
| 4 | radhika | 444 | pune | maharashtra | radhika@gmail.com |
| 5 | mitesh | 555 | nagpur | maharashtra | mitesh@gmail.com |
| 6 | anish | 666 | pune | maharashtra | anish@gmail.com |
| 7 | archit | 777 | banglore | karnataka | archit@gmail.com |
| 8 | sahil | 888 | surat | gujrat | sahil@gmail.com |
| 9 | anvesh | 999 | srinagar | J&K | anvesh@gmail.com |
| 10 | raghuram | 1111 | chennai | Tamil Nadu | raghu@gmail.com |
+-----+
10 rows in set (0.00 sec)

mysql> select * from orders;
+-----+
| o_id | c_id | items | amount | o_date |
+-----+
| 1 | 1 | 2 | 2000 | 2020-09-01 |
| 2 | 2 | 1 | 1000 | 2019-09-01 |
| 3 | 6 | 1 | 800 | 2018-09-01 |
| 4 | 1 | 1 | 50 | 2021-07-01 |
| 5 | 4 | 3 | 1500 | 2020-06-12 |
| 6 | 7 | 2 | 250 | 2020-05-05 |
+-----+
6 rows in set (0.00 sec)

mysql> select * from delivery;
+-----+
| d_id | c_id | payment | d_date |
+-----+
| 1 | 1 | paid | 2020-09-04 |
| 2 | 2 | not-paid | 2019-09-04 |
| 3 | 6 | paid | 2018-09-04 |
| 4 | 1 | paid | 2021-07-04 |
+-----+
4 rows in set (0.00 sec)
```

```
Activities Terminal Sep 4 11:40 AM
mihir@pop-os: ~/Desktop

mysql> select * from delivery;
+-----+
| d_id | c_id | payment | d_date |
+-----+
| 1 | 1 | paid | 2020-09-04 |
| 2 | 2 | not-paid | 2019-09-04 |
| 3 | 6 | paid | 2018-09-04 |
| 4 | 1 | paid | 2021-07-04 |
| 5 | 4 | not-paid | 2020-06-15 |
| 6 | 7 | paid | 2020-05-08 |
+-----+
6 rows in set (0.00 sec)

mysql> select * from orders_product;
+-----+
| o_id | p_id |
+-----+
| 1 | 1 |
| 1 | 2 |
| 2 | 3 |
| 3 | 2 |
| 4 | 4 |
| 5 | 6 |
| 5 | 6 |
| 5 | 6 |
| 6 | 4 |
| 6 | 5 |
+-----+
10 rows in set (0.00 sec)

mysql> select * from product;
+-----+
| p_id | p_name | p_cost |
+-----+
| 1 | jeans | 1200 |
| 2 | T-shirt | 800 |
| 3 | jacket | 1000 |
| 4 | notebook | 50 |
| 5 | hat | 200 |
| 6 | sweater | 500 |
+-----+
6 rows in set (0.00 sec)

mysql>
```

- Display all the Purchase orders of a specific Customer.

```
mysql> select * from orders where c_id = (select c_id from customer where c_name="archit");
+-----+-----+-----+-----+-----+
| o_id | c_id | items | amount | o_date |
+-----+-----+-----+-----+
| 6 | 7 | 2 | 250 | 2020-05-05 |
+-----+-----+-----+-----+
1 row in set (0.01 sec)

mysql> select * from orders where c_id = (select c_id from customer where c_name="radhika");
+-----+-----+-----+-----+-----+
| o_id | c_id | items | amount | o_date |
+-----+-----+-----+-----+
| 5 | 4 | 3 | 1500 | 2020-06-12 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

- Get Customer and Data Item Information for a Specific Purchase Order.

```
mysql> select o.o_id,c.c_name,c.c_email,p.p_name,p.p_cost from orders o inner join customer c on o.o_id=c.c_id inner join orders_product op on o.o_id=op.o_id inner join product p on op.p_id=p.p_id where o.o_id=5;
+-----+-----+-----+-----+-----+
| o_id | c_name | c_email | p_name | p_cost |
+-----+-----+-----+-----+
| 5 | mitesh | mitesh@gmail.com | sweater | 500 |
| 5 | mitesh | mitesh@gmail.com | sweater | 500 |
| 5 | mitesh | mitesh@gmail.com | sweater | 500 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select o.o_id,c.c_name,c.c_email,p.p_name,p.p_cost from orders o inner join customer c on o.o_id=c.c_id inner join orders_product op on o.o_id=op.o_id inner join product p on op.p_id=p.p_id where o.o_id=1;
+-----+-----+-----+-----+-----+
| o_id | c_name | c_email | p_name | p_cost |
+-----+-----+-----+-----+
| 1 | anish | a@gmail.com | jeans | 1200 |
| 1 | anish | a@gmail.com | T-shirt | 800 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

- Get the Total Value of Purchase Orders.

```
mysql> select sum(amount) as "Total order amount" from orders;
+-----+
| Total order amount |
+-----+
| 5600 |
+-----+
1 row in set (0.00 sec)
```

- List the Purchase Orders in descending order as per total.

```
mysql> select * from orders order by amount desc;
+-----+-----+-----+-----+-----+
| o_id | c_id | items | amount | o_date |
+-----+-----+-----+-----+
| 1 | 1 | 2 | 2000 | 2020-09-01 |
| 5 | 4 | 3 | 1500 | 2020-06-12 |
| 2 | 2 | 1 | 1000 | 2019-09-01 |
| 3 | 6 | 1 | 800 | 2018-09-01 |
| 6 | 7 | 2 | 250 | 2020-05-05 |
| 4 | 1 | 1 | 50 | 2021-07-01 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

- Display the name of customers whose first name starts with “Rav”. (String matching :Like operator)

```
mysql> select * from customer where c_name like "a%";
+-----+-----+-----+-----+-----+
| c_id | c_name | c_mobile | c_city | c_state | c_email |
+-----+-----+-----+-----+-----+
| 1 | anish | 111 | pune | maharashtra | a@gmail.com |
| 6 | anish | 666 | pune | maharashtra | anish@gmail.com |
| 7 | archit | 777 | banglore | karnataka | archit@gmail.com |
| 9 | anvesh | 999 | srinagar | J&K | anvesh@gmail.com |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

- Display the name of customer whose order amount is greater than all the customers. (Relational Operator: <, >, <=, >=, =, !=)

```
mysql> select * from orders where amount >= (select max(amount) from orders);
+-----+-----+-----+-----+-----+
| o_id | c_id | items | amount | o_date |
+-----+-----+-----+-----+
| 1 | 1 | 2 | 1000 | 2020-09-01 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

- Display order details of customer whose city name is “Pune” and purchase date is “22/08/2016” (Boolean Operators: and, or)

```

mysql> select c.c_name,c.c_city,c.c_email,o.o_id,o.o_date,o.amount from orders o inner join customer c on o.o_id=c.c_id where c.c_city="pune";
+-----+-----+-----+-----+-----+-----+
| c_name | c_city | c_email | o_id | o_date | amount |
+-----+-----+-----+-----+-----+-----+
| anish  | pune   | a@gmail.com | 1 | 2020-09-01 | 2000 |
| radhika | pune   | radhika@gmail.com | 4 | 2021-07-01 | 50 |
| anish  | pune   | anish@gmail.com | 6 | 2020-05-05 | 250 |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select c.c_name,c.c_city,c.c_email,o.o_id,o.o_date,o.amount from orders o inner join customer c on o.o_id=c.c_id where c.c_city="pune" and o.o_date="2020-09-01";
+-----+-----+-----+-----+-----+-----+
| c_name | c_city | c_email | o_id | o_date | amount |
+-----+-----+-----+-----+-----+-----+
| anish  | pune   | a@gmail.com | 1 | 2020-09-01 | 2000 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

```

- Add discount of 5% to all the customers whose order is more than Rs. 10000/-. (Arithmetic Operators +, -, *, /)

```

mysql> select * from orders;
+-----+-----+-----+-----+-----+
| o_id | c_id | items | amount | o_date |
+-----+-----+-----+-----+-----+
| 1 | 1 | 2 | 2000 | 2020-09-01 |
| 2 | 2 | 1 | 1000 | 2019-09-01 |
| 3 | 6 | 1 | 800 | 2018-09-01 |
| 4 | 1 | 1 | 50 | 2021-07-01 |
| 5 | 4 | 3 | 1500 | 2020-06-12 |
| 6 | 7 | 2 | 250 | 2020-05-05 |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> update orders set amount=amount*0.95 where amount>1500;
Query OK, 1 row affected (0.05 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from orders;
+-----+-----+-----+-----+-----+
| o_id | c_id | items | amount | o_date |
+-----+-----+-----+-----+-----+
| 1 | 1 | 2 | 1900 | 2020-09-01 |
| 2 | 2 | 1 | 1000 | 2019-09-01 |
| 3 | 6 | 1 | 800 | 2018-09-01 |
| 4 | 1 | 1 | 50 | 2021-07-01 |
| 5 | 4 | 3 | 1500 | 2020-06-12 |
| 6 | 7 | 2 | 250 | 2020-05-05 |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql>

```

- Delete Purchase Order 1001.

```

mysql> select * from orders;
+-----+-----+-----+-----+-----+
| o_id | c_id | items | amount | o_date |
+-----+-----+-----+-----+-----+
| 1 | 1 | 2 | 1900 | 2020-09-01 |
| 2 | 2 | 1 | 1000 | 2019-09-01 |
| 3 | 6 | 1 | 800 | 2018-09-01 |
| 4 | 1 | 1 | 50 | 2021-07-01 |
| 5 | 4 | 3 | 1500 | 2020-06-12 |
| 6 | 7 | 2 | 250 | 2020-05-05 |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> delete from orders where o_id=2;
ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`a1`.`orders_product`, CONSTRAINT `orders_product_ibfk_1` FOREIGN KEY (`o_id`) REFERENCES `orders` (`o_id`))
mysql> delete from orders_product where o_id=2;
Query OK, 1 row affected (0.06 sec)

mysql> delete from delivery where o_id=2;
ERROR 1054 (42S22): Unknown column 'o_id' in 'where clause'
mysql> delete from delivery where d_id=2;
Query OK, 1 row affected (0.06 sec)

mysql> delete from orders where o_id=2;
Query OK, 1 row affected (0.04 sec)

mysql> select * from orders;
+-----+-----+-----+-----+-----+
| o_id | c_id | items | amount | o_date |
+-----+-----+-----+-----+-----+
| 1 | 1 | 2 | 1900 | 2020-09-01 |
| 3 | 6 | 1 | 800 | 2018-09-01 |
| 4 | 1 | 1 | 50 | 2021-07-01 |
| 5 | 4 | 3 | 1500 | 2020-06-12 |
| 6 | 7 | 2 | 250 | 2020-05-05 |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>

```