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Group B Assignment No 3

Dear Students

Do the following task.

Write following conditional select queries on Order Management DB.

A]. Aggregate functions (count, sum, avg etc.)

- Get the total no of customers.
- Display average purchase amount of all the customers.
- Display total purchase amount of all the customers.

B]. Built in functions (now (), date (), day (), time () etc)

- Find DAYNAME, MONTHNAME and YEAR of the purchase order made on “1995-11-2016”
- Get current date & time, current time, current date
- Get 6 month future & past date using interval function based on current date and name the column accordingly.
- Find purchase details of the customers group by product category.
- Find the purchase details of all the customers who made shopping today.(Using having clause)

A]. Aggregate functions (count, sum, avg etc.)

- Get the total no of customers.

```
mysql> select count(c_id) as 'Total no. of customers' from customer;
+-----+
| Total no. of customers |
+-----+
|          10          |
+-----+
1 row in set (0.03 sec)

mysql> 
```

- Display average purchase amount of all the customers.

```
mysql> select c.c_name,avg(amount) from orders o inner join customer c on o.c_id=c.c_id group by c.c_id;
+-----+-----+
| c_name | avg(amount) |
+-----+-----+
| anish  | 975.0000    |
| anish  | 800.0000    |
| radhika | 1500.0000   |
| archit | 250.0000    |
+-----+-----+
4 rows in set (0.01 sec)
```

- Display total purchase amount of all the customers.

```
mysql> select c.c_name,sum(amount) from orders o inner join customer c on o.c_id=c.c_id group by c.c_id;
+-----+-----+
| c_name | sum(amount) |
+-----+-----+
| anish  | 1950        |
| anish  | 800         |
| radhika | 1500        |
| archit | 250         |
+-----+-----+
4 rows in set (0.00 sec)

mysql> 
```

B]. Built in functions (now (), date (), day (), time () etc)

- Find DAYNAME, MONTHNAME and YEAR of the purchase order made on “1995-11-2016”

```
mysql> SELECT DAYNAME("2020-09-01"),MONTHNAME("2020-09-01"),YEAR("2020-09-01");
+-----+-----+-----+
| DAYNAME("2020-09-01") | MONTHNAME("2020-09-01") | YEAR("2020-09-01") |
+-----+-----+-----+
| Tuesday                | September                | 2020                |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> 
```

- Get current date & time, current time, current date

```
mysql> SELECT CURRENT_TIMESTAMP(),CURRENT_DATE(),CURRENT_TIME();
+-----+-----+-----+
| CURRENT_TIMESTAMP() | CURRENT_DATE() | CURRENT_TIME() |
+-----+-----+-----+
| 2020-09-11 15:18:32 | 2020-09-11      | 15:18:32       |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> 
```

- Get 6 month future & past date using interval function based on current date and name the column accordingly.

```
mysql> SELECT DATE_ADD(now(), INTERVAL 6 MONTH);
+-----+
| DATE_ADD(now(), INTERVAL 6 MONTH) |
+-----+
| 2021-03-11 15:26:43                |
+-----+
1 row in set (0.00 sec)

mysql> SELECT DATE_SUB(now(), INTERVAL 6 MONTH);
+-----+
| DATE_SUB(now(), INTERVAL 6 MONTH) |
+-----+
| 2020-03-11 15:26:48                |
+-----+
1 row in set (0.00 sec)

mysql> 
```

- Find purchase details of the customers group by product category.

```
mysql> select o.o_id,p.p_name from orders o inner join orders_product op on o.o_id=op.o_id inner join product p on op.p_id=p.p_id;
+-----+-----+
| o_id | p_name |
+-----+-----+
| 1    | jeans  |
| 1    | T-shirt|
| 3    | T-shirt|
| 4    | notebook|
| 5    | sweater|
| 5    | sweater|
| 5    | sweater|
| 6    | notebook|
| 6    | hat    |
+-----+-----+
9 rows in set (0.00 sec)
```

- Find the purchase details of all the customers who made shopping today.(Using having clause)

```
mysql> select * from orders having o_date="2020-09-01";
+-----+-----+-----+-----+-----+
| o_id | c_id | items | amount | o_date      |
+-----+-----+-----+-----+-----+
|    1 |    1 |     2 |    1900 | 2020-09-01 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> 
```