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Class : TE 10

SL1 ASSIGNMENT 6

Problem Statement : Write following conditional select queries on above DB.

A]. Aggregate functions (count, sum, avgetc)

Get the total no of customers.

```
mysql> select count(*) from customer;
+----------+
| count(*) |
+----------+
|        9 |
+----------+
1 row in set (0.00 sec)
```

Display average purchase amount of all the customers.

```
mysql> select avg(amount) as AveragePurchaseAmount from orders;
+-----------------------+
| AveragePurchaseAmount |
+-----------------------+
|            25471.4286 |
+-----------------------+
1 row in set (0.00 sec)
```

Display total purchase amount of all the customers.

```
mysql> select sum(amount) as TotalPurchaseAmount from orders;
+---------------------+
| TotalPurchaseAmount |
+---------------------+
|              356600 |
+---------------------+
1 row in set (0.00 sec)
```

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

Find DAYNAME, MONTHNAME and YEAR of the purchase order made on “1995-11-20”

```
mysql> select dayname(purchase_date) as Day, monthname(purchase_date) as Month,
year(purchase_date) as Year from orders where purchase_date = '1997-9-5';
+--------+-----------+------+
| Day    | Month     | Year |
+--------+-----------+------+
| Friday | September | 1997 |
+--------+-----------+------+
1 row in set (0.01 sec)
```

Get current date & time, current time, current date

```
mysql> select now();
+---------------------+
| now()               |
```

```
+---------------------+
| 2020-11-21 17:20:27 |
+---------------------+
1 row in set (0.00 sec)

mysql> select curdate();
+------------+
| curdate()  |
+------------+
| 2020-11-21 |
+------------+
1 row in set (0.00 sec)

mysql> select current_time();
+----------------+
| current_time() |
+----------------+
| 17:20:44       |
+----------------+
1 row in set (0.00 sec)
```

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

```
mysql> select sysdate() + interval 6 month as 'Future Date',sysdate() - interval
6 month as 'Past Date';
+---------------------+---------------------+
| Future Date         | Past Date           |
+---------------------+---------------------+
| 2021-05-21 17:22:25 | 2020-05-21 17:22:25 |
+---------------------+---------------------+
1 row in set (0.00 sec)
```

Find purchase details of the customers group by product category.

```
mysql> select order_id, cust_id, orders.prod_id, orders.amount, quantity,
category from orders, products  where orders.prod_id = products.prod_id order by
category;
+----------+---------+---------+--------+----------+-------------+
| order_id | cust_id | prod_id | amount | quantity | category    |
+----------+---------+---------+--------+----------+-------------+
|     1011 |       1 |     105 |   5000 |        2 | clothing    |
|     1008 |       8 |     108 |   3200 |        4 | clothing    |
|     1009 |       9 |     109 |   1200 |        1 | decor       |
|     1005 |       5 |     101 |  47500 |        1 | electronics |
|     1015 |       5 |     101 |  95000 |        2 | electronics |
|     1007 |       7 |     107 | 156750 |        3 | electronics |
|     1006 |       3 |     106 |   1000 |        2 | healthcare  |
|     1003 |       3 |     103 |   6000 |        3 | healthcare  |
|     1013 |       3 |     103 |  11400 |        4 | healthcare  |
|     1010 |      10 |     110 |    300 |        1 | healthcare  |
|     1002 |       2 |     104 |  10000 |        2 | sports      |
|     1012 |       2 |     104 |  14250 |        3 | sports      |
|     1004 |       4 |     102 |   4000 |        4 | sports      |
|     1014 |       4 |     102 |   1000 |        1 | sports      |
+----------+---------+---------+--------+----------+-------------+
14 rows in set (0.00 sec)
```

Find the purchase details of all the customers who made shopping today.

```
mysql> select * from orders having purchase_date = curdate();
+----------+---------+---------+----------+--------+---------------+--------+
| order_id | prod_id | cust_id | quantity | amount | purchase_date | city   |
+----------+---------+---------+----------+--------+---------------+--------+
|     1015 |     101 |       5 |        2 |  95000 | 2020-11-21    | mumbai |
+----------+---------+---------+----------+--------+---------------+--------+
1 row in set (0.00 sec)
```