

Assignment 6

1. Aggregate Functions

a. Get the total number of customers

```
mysql> select count(*) from customer;
+-----+
| count(*) |
+-----+
|      9 |
+-----+
1 row in set (0.01 sec)
```

b. Display average purchase amounts for all customers

```
mysql> select customer.cust_id, fname, avg(total_price) from
customer,orders where customer.cust_id=orders.cust_id group by
orders.cust_id order by customer.cust_id;
+-----+-----+-----+
| cust_id | fname      | avg(total_price) |
+-----+-----+-----+
|    30  | Ravikant    |      560        |
|    49  | Harsh       |      630        |
|    50  | Saloni      |    1054.5      |
|    51  | Anuj        |      550        |
|    52  | Onkar       |      710        |
|    53  | Prathamesh  |      610        |
|    54  | Muskaan     |      210        |
|    55  | Shreyas     | 273.333333333333 |
|    60  | Ravi        |      544.5      |
+-----+-----+-----+
9 rows in set (0.00 sec)
```

c. Display total purchase amount of all customers

```
mysql> select customer.cust_id, fname, sum(total_price) from
customer,orders where customer.cust_id=orders.cust_id group by
orders.cust_id order by customer.cust_id;
+-----+-----+-----+
| cust_id | fname      | sum(total_price) |
+-----+-----+-----+
|    30  | Ravikant    |      1120        |
|    49  | Harsh       |      1260        |
|    50  | Saloni      |    1054.5      |
|    51  | Anuj        |      550        |
|    52  | Onkar       |      710        |
|    53  | Prathamesh  |      610        |
|    54  | Muskaan     |      210        |
+-----+-----+-----+
```

```

|      55 | Shreyas      |          820 |
|      60 | Ravi          |          1089 |
+-----+-----+-----+
9 rows in set (0.00 sec)

```

2. Built in Functions (now(), date(), day(), time(), etc)

a. Find DAYNAME, MONTHNAME AND YEAR of the purchase orders made on “2020-08-22”

```

mysql> select order_id,dayname(ts) as Day,monthname(ts) as
Month,year(ts) as Year from orders where ts like "2020-09-22%";
+-----+-----+-----+-----+
| order_id | Day      | Month    | Year   |
+-----+-----+-----+-----+
|      10 | Tuesday | September | 2020 |
|      11 | Tuesday | September | 2020 |
|      12 | Tuesday | September | 2020 |
|      13 | Tuesday | September | 2020 |
|    1001 | Tuesday | September | 2020 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

mysql> select order_id,dayname(ts) as Day,monthname(ts) as
Month,year(ts) as Year from orders where ts like "2020-09-15%";
+-----+-----+-----+-----+
| order_id | Day      | Month    | Year   |
+-----+-----+-----+-----+
|       1 | Tuesday | September | 2020 |
|       2 | Tuesday | September | 2020 |
|       3 | Tuesday | September | 2020 |
|       4 | Tuesday | September | 2020 |
|       5 | Tuesday | September | 2020 |
|       6 | Tuesday | September | 2020 |
|       7 | Tuesday | September | 2020 |
|       8 | Tuesday | September | 2020 |
|       9 | Tuesday | September | 2020 |
+-----+-----+-----+-----+
9 rows in set (0.00 sec)

```

b. Get the current date and time, current time, current date

```

mysql> select curdate() as CurrentDate;
+-----+
| CurrentDate |
+-----+
| 2020-09-25 |

```

```

+-----+
1 row in set (0.00 sec)

mysql> select curtime() as CurrentTime;
+-----+
| CurrentTime |
+-----+
| 23:26:56    |
+-----+
1 row in set (0.00 sec)

mysql> select date(current_timestamp) as CurrentDate;
+-----+
| CurrentDate |
+-----+
| 2020-09-25  |
+-----+
1 row in set (0.00 sec)

mysql> select time(current_timestamp) as CurrentTime;
+-----+
| CurrentTime |
+-----+
| 23:28:08    |
+-----+
1 row in set (0.00 sec)

```

c. Get 6 months future & past date using interval functions based current date. Name the column accordingly

```

mysql> select date_sub(curdate(), interval 6 month) as Last6Month,
curdate() as CurrentDate, date_sub(curdate(), INTERVAL -6 MONTH)
as Next6Month;
+-----+-----+-----+
| Last6Month | CurrentDate | Next6Month |
+-----+-----+-----+
| 2020-03-25 | 2020-09-25 | 2021-03-25 |
+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select date_sub(curdate(), Interval 10 DAY) as Last10Days;
+-----+
| Last10Days |
+-----+
| 2020-09-15 |
+-----+
1 row in set (0.00 sec)

```

d. Find purchase details of all the customers group by product and category

```
mysql> select
cust_id,selects.order_id,product.name,category.name,total_price
from orders,product,selects,category where
orders.order_id=selects.order_id and
product.cat_id=category.cat_id and
selects.product_id=product.product_id group by
selects.order_id,product.name,category.name having
count(selects.order_id)>=1;
+-----+-----+-----+-----+-----+
| cust_id | order_id | name           | name       | total_price |
+-----+-----+-----+-----+-----+
|      49 |         1 | 200 Pages Notebook | Books      |      350    |
|      50 |         6 | 200 Pages Notebook | Books      | 1054.5    |
|      54 |         7 | 200 Pages Notebook | Books      |      210    |
|      53 |         8 | 200 Pages Notebook | Books      |      610    |
|      51 |         2 | 200 Pages Notebook | Books      |      550    |
|      55 |         3 | 200 Pages Notebook | Books      |      410    |
|      55 |    1001 | 200 Pages Notebook | Books      |      300    |
|      51 |         2 | Pen              | Consumables |      550    |
|      55 |         9 | Pen              | Consumables |      110    |
|      30 |        10 | Pen              | Consumables |      200    |
|      49 |         1 | Pen              | Consumables |      350    |
|      49 |         5 | Pen              | Consumables |      910    |
|      53 |         8 | Pen              | Consumables |      610    |
|      30 |        11 | Pen              | Consumables |      920    |
|      55 |    1001 | Pen              | Consumables |      300    |
|      52 |         4 | Pencil Box      | Consumables |      710    |
|      60 |        12 | Pencil Box      | Consumables |      120    |
|      51 |         2 | Pencil Box      | Consumables |      550    |
|      49 |         5 | fx-991MS        | Calculator  |      910    |
|      50 |         6 | fx-991MS        | Calculator  | 1054.5    |
|      30 |        11 | fx-991MS        | Calculator  |      920    |
|      52 |         4 | fx-82MS         | Calculator  |      710    |
|      60 |        13 | fx-82MS         | Calculator  |      969    |
|      51 |         2 | Workshop Apron | Wearables   |      550    |
|      55 |         3 | Workshop Apron | Wearables   |      410    |
|      55 |         9 | Workshop Apron | Wearables   |      110    |
|      30 |        10 | Workshop Apron | Wearables   |      200    |
|      60 |        13 | Workshop Apron | Wearables   |      969    |
+-----+-----+-----+-----+-----+
28 rows in set (0.00 sec)
```

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

```
mysql> select cust_id,order_id,total_price,ts from orders where ts
like '2020-09-15%' group by cust_id,total_price,order_id having
count(cust_id)>=1;
+-----+-----+-----+-----+
| cust_id | order_id | total_price | ts          |
+-----+-----+-----+-----+
|      49 |         1 |      350    | 2020-09-15 11:50:41 |
```

51	2	550	2020-09-15	11:51:22
55	3	410	2020-09-15	11:51:42
52	4	710	2020-09-15	11:51:49
49	5	910	2020-09-15	11:51:58
50	6	1054.5	2020-09-15	11:52:25
54	7	210	2020-09-15	11:52:33
53	8	610	2020-09-15	11:52:46
55	9	110	2020-09-15	11:52:52

9 rows in set (0.00 sec)