

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    | 273.3333333333333 |
| 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)								