

TASK-6 (MYSQL)

```
mysql> show databases;
+-----+
| Database |
+-----+
| classicmodels |
| customer_orders |
| customers_orders |
| information_schema |
| myfolder |
| mysql |
| new_database |
| office |
| performance_schema |
| sakila |
| school |
| school folder |
| sys |
| world |
+-----+
14 rows in set (0.02 sec)
```

```
mysql> use classicmodels;
Database changed
mysql> show tables;
+-----+
| Tables_in_classicmodels |
+-----+
| customers |
| deep |
| employees |
| facility |
| offices |
| orderdetails |
| orders |
| payments |
| productlines |
| products |
| project |
+-----+
11 rows in set (0.00 sec)
```

1-Use EXTRACT(MONTH FROM order_date) for month.

```
mysql> SELECT EXTRACT(MONTH FROM orderDate) AS order_month FROM orders LIMIT 10;
ERROR 1327 (42000): Undeclared variable: 10
mysql> SELECT EXTRACT(MONTH FROM orderDate) AS order_month FROM orders LIMIT 10;
+-----+
| order_month |
+-----+
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 1 |
| 2 |
| 2 |
| 2 |
| 3 |
| 3 |
+-----+
10 rows in set (0.00 sec)

mysql>
```

2-GROUP BY year/month.

```
mysql> SELECT YEAR(orderDate) AS year, MONTH(orderDate) AS month, COUNT(*) AS count FROM orders GROUP BY YEAR(orderDate), MONTH(orderDate) LIMIT 10;
+-----+-----+-----+
| year | month | count |
+-----+-----+-----+
| 2003 | 1 | 5 |
| 2003 | 2 | 3 |
| 2003 | 3 | 6 |
| 2003 | 4 | 7 |
| 2003 | 5 | 6 |
| 2003 | 6 | 7 |
| 2003 | 7 | 7 |
| 2003 | 8 | 5 |
| 2003 | 9 | 8 |
| 2003 | 10 | 18 |
+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> _
```

```
mysql> select month(orderDate) as months
-> FROM orders
-> GROUP BY month(orderDate);
+-----+
| months |
+-----+
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
+-----+
12 rows in set (0.00 sec)
```

3-Use SUM() for revenue.

```
mysql> SELECT * FROM PAYMENTS LIMIT 10;
```

customerNumber	checkNumber	paymentDate	amount
103	HQ336336	2004-10-19	6066.78
103	JM555205	2003-06-05	14571.44
103	OM314933	2004-12-18	1676.14
112	B0864823	2004-12-17	14191.12
112	HQ55022	2003-06-06	32641.98
112	ND748579	2004-08-20	33347.88
114	GG31455	2003-05-20	45864.03
114	MA765515	2004-12-15	82261.22
114	NP603840	2003-05-31	7565.08
114	NR27552	2004-03-10	44894.74

```
10 rows in set (0.00 sec)
```



```
mysql> SELECT SUM(amount) FROM PAYMENTS;
```

SUM(amount)
8853839.23

```
1 row in set (0.00 sec)
```

4-COUNT(DISTINCT order_id) for volume

```
mysql> select count(distinct orderNumber) AS order_id
-> from orders
-> limit 15;
```

order_id
326

```
1 row in set (0.01 sec)
```

5-Use ORDER BY for sorting

```
mysql> select customerNumber
-> from orders
-> ORDER BY customerNumber ASC
-> limit 10;
```

```
+-----+
| customerNumber |
+-----+
|          103   |
|          103   |
|          103   |
|          112   |
|          112   |
|          112   |
|          114   |
|          114   |
|          114   |
|          114   |
+-----+
10 rows in set (0.00 sec)
```

6-Limit results for specific time periods

```
mysql> select * from orders limit 10;
```

orderNumber	orderDate	requiredDate	shippedDate	status	comments	customerNumber
10100	2003-01-06	2003-01-13	2003-01-10	Shipped	NULL	363
10101	2003-01-09	2003-01-18	2003-01-11	Shipped	Check on availability.	128
10102	2003-01-10	2003-01-18	2003-01-14	Shipped	NULL	181
10103	2003-01-29	2003-02-07	2003-02-02	Shipped	NULL	121
10104	2003-01-31	2003-02-09	2003-02-01	Shipped	NULL	141
10105	2003-02-11	2003-02-21	2003-02-12	Shipped	NULL	145
10106	2003-02-17	2003-02-24	2003-02-21	Shipped	NULL	278
10107	2003-02-24	2003-03-03	2003-02-26	Shipped	Difficult to negotiate with customer. We need more marketing materials	131
10108	2003-03-03	2003-03-12	2003-03-08	Shipped	NULL	385
10109	2003-03-10	2003-03-19	2003-03-11	Shipped	Customer requested that FedEx Ground is used for this shipping	486

```
10 rows in set (0.05 sec)
```