DBMS Queries

1. The Order_Items table

contains: order_id, product_id,

quantity, price Create a view that

shows:

- **Product ID**
- **Total Quantity Sold**
- **Total Sales Amount**

Create database E_Commerce;

```
mysql> Create database  E_Commerce;
Query OK, 1 row affected (0.01 sec)
```

Use E_Commerce;

```
mysql> Use   E_Commerce;
Database changed
```

Create table Order_Items(order_id int primary key,product_id int ,quantity int,price int);

```
mysql> Create table Order_Items( order_id int primary key,product_id int ,quantity int,price int);
Query OK, 0 rows affected (0.04 sec)
```

Show tables;

```
mysql> Show tables;
+----------------------+
| Tables_in_E_Commerce |
+----------------------+
| Order_Items          |
+----------------------+
1 row in set (0.00 sec)
```

Describe Order_Items;

```
mysql> Describe Order_Items;
+------------+------+------+-----+---------+-------+
| Field      | Type | Null | Key | Default | Extra |
+------------+------+------+-----+---------+-------+
| order_id   | int  | NO   | PRI | NULL    |       |
| product_id | int  | YES  |     | NULL    |       |
| quantity   | int  | YES  |     | NULL    |       |
| price      | int  | YES  |     | NULL    |       |
+------------+------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

insert into Order_Items values(1,101,150,500), (2,102,160,600), (7,103,170,700), (3,104,180,800), (4,105,190,900), (5,106,200,1000),

(6,107,210,1100);

```
mysql> insert into Order_Items values(1,101,150,500), (2,102,160,600), (7,103,170,700), (3,104,180,800), (4,105,190,900), (5,106,200,1000),
(6,107,210,1100);
Query OK, 7 rows affected (0.02 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

Select * from Order_Items;

```
mysql> Select * from Order_Items;
+----------+------------+----------+-------+
| order_id | product_id | quantity | price |
+----------+------------+----------+-------+
|        1 |        101 |      150 |   500 |
|        2 |        102 |      160 |   600 |
|        3 |        104 |      180 |   800 |
|        4 |        105 |      190 |   900 |
|        5 |        106 |      200 |  1000 |
|        6 |        107 |      210 |  1100 |
|        7 |        103 |      170 |   700 |
+----------+------------+----------+-------+
7 rows in set (0.01 sec)
```

- **Create View:**

Create View Product_summary as SELECT product_id as Product_ID, Sum(quantity) as Total_Quantity_Sold, Sum(quantity*price) AS Total_Sales_Amount FRom Order_Items Group by product_id;

```
mysql> Create View Product_summary as SELECT product_id as Product_ID, Sum(quantity) as Total_Quantity_Sold, Sum(quantity*price) AS Total_Sale
s_Amount FRom Order_Items Group by product_id;
Query OK, 0 rows affected (0.02 sec)
```

Select * from Product_summary

```
mysql> Select * from Product_summary;
+------------+---------------------+--------------------+
| Product_ID | Total_Quantity_Sold | Total_Sales_Amount |
+------------+---------------------+--------------------+
|        101 |                 150 |              75000 |
|        102 |                 160 |              96000 |
|        104 |                 180 |             144000 |
|        105 |                 190 |             171000 |
|        106 |                 200 |             200000 |
|        107 |                 210 |             231000 |
|        103 |                 170 |             119000 |
+------------+---------------------+--------------------+
7 rows in set (0.00 sec)
```

2. A view named Active_Employees shows active employees from the Employees table. Update the email address of employee with ID 105 using the view.

create view Active_employees AS SELECT Employee_id,First_Name,Last_Name,Email from EMPLOYEES WHERE status='active';

```
mysql> create view Active_employees AS SELECT Employee_id,First_Name,Last_Name,Email fro
m EMPLOYEES WHERE status='active';
Query OK, 0 rows affected (0.02 sec)
```

select * from Active_employees;

```
mysql> select * from Active_employees;
+-------------+------------+-----------+--------------+
| Employee_id | First_Name | Last_Name | Email        |
+-------------+------------+-----------+--------------+
|         101 | Akanksha   | Andhale   | ak@gmail.com |
|         102 | Sanika     | Gadhave   | sa@gmail.com |
|         104 | Nikki      | Thakur    | nn@gmail.com |
+-------------+------------+-----------+--------------+
3 rows in set (0.00 sec)
```

update Active_employees set Email='nikki@gmail.com' where Employee_id=104;

```
mysql> update Active_employees set Email='nikki@gmail.com' where Employee_id=104;
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

3. A company maintains a Customers table. Create a view that displays only customers whose status is . The view should include:

- **Customer ID**
- **First Name**
- **Last Name**
- **Email**

Create table Customers (Customer_id int primary key,First_Name

varchar(100),Last_name varchar(100) ,Email varchar(100),Status varchar(100));

```
mysql> Create table Customers (Customer_id int primary key,First_Name
varchar(100),Last_name varchar(100) ,Email varchar(100),Status varchar(100));
Query OK, 0 rows affected (0.03 sec)
```

insert into Customers values(11,'Akanksha','Andhale','ak@gmail.com','active'), (02,'Sanika','Gadhave','sa@gmail.com','active'), (13,'Aastha','Wanjari','aa@gmail.com','non active'), (04,'Nikki','Thakur','nn@gmail.com’,’active'), (6,'Sonia','Thakur','so@gmail.com','non active');

```
ysql> insert into Customers values(11,'Akanksha','Andhale','ak@gmail.com','active'),(02
'Sanika','Gadhave','sa@gmail.com','active'), (13,'Aastha','Wanjari','aa@gmail.com','non
active'), (04,'Nikki','Thakur','nn@
ve'), (6,'Sonia','Thakur','so@gmail.com','non active');
uery OK, 6 rows affected (0.02 sec)
ecords: 6  Duplicates: 0  Warnings: 0
```

select * from active_customers;

```
mysql> select * from active_customers;
+-------------+------------+-----------+--------------+
| Customer_id | First_NAME | LAST_NAME | EMAIL        |
+-------------+------------+-----------+--------------+
|           2 | Sanika     | Gadhave   | sa@gmail.com |
|           4 | Nikki      | Thakur    | nn@gmail.com |
|          11 | Akanksha   | Andhale   | ak@gmail.com |
+-------------+------------+-----------+--------------+
3 rows in set (0.00 sec)
```