

DBMS Queries

Name : Sonia Thakur

PRN : 124B1B054

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_Sales_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 from
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');

```
mysql> 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');
Query OK, 6 rows affected (0.02 sec)
Records: 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)
```