

## DBMS Queries

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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   | PRI   | 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 FFrom 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 FFrom 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@ve'), (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)
```