

TASK 7: CREATING VIEWS

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1. USE CREATE VIEW WITH COMPLEX SELECT

```
mysql> create view Full_Order_Details AS
```

```
-> Select o.order_no, u.u_name, p.p_name, p.price, o.order_amount, o.order_date
```

```
-> From Orders o
```

```
-> Join User u on o.user_id = u.user_id
```

```
-> Join Orders_Contains_Product ocp On o.order_no = ocp.order_no
```

```
-> Join Product p On ocp.prod_id = p.prod_id;
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * From Full_Order_Details;
```

```
+-----+-----+-----+-----+-----+
| order_no | u_name   | p_name   | price  | order_amount | order_date |
+-----+-----+-----+-----+-----+
| 101 | Aaliya   | SmartPhone | 18999.00 | 20498.00 | 2025-06-22 |
| 102 | Rahul Sharma | T-Shirt   | 499.00 | 499.00 | 2025-06-23 |
| 101 | Aaliya   | T-Shirt   | 499.00 | 20498.00 | 2025-06-22 |
+-----+-----+-----+-----+-----+
```

```
3 rows in set (0.02 sec)
```

```
mysql> create view User_Total_Spending AS
```

```
-> Select u.user_id, u.u_name, SUM(o.order_amount) AS total_spent
```

```
-> From User u
```

```
-> Join Orders o ON u.user_id = o.user_id
```

```
-> GROUP BY u.user_id, u.u_name;
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * From User_Total_Spending;
```

```
+-----+-----+-----+
| user_id | u_name   | total_spent |
+-----+-----+-----+
| 1 | Aaliya   | 20498.00 |
| 2 | Rahul Sharma | 499.00 |
+-----+-----+-----+
```

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

```
mysql> create view Product_Category_View AS
```

```
-> Select p.prod_id, p.p_name, p.price, c.c_name AS category_name
```

```
-> From Product p
```

```
-> JOIN Product_Category c On p.cat_id = c.cat_id;
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * From Product_Category_View;
```

```
+-----+-----+-----+-----+
| prod_id | p_name   | price  | category_name |
+-----+-----+-----+-----+
| 1 | SmartPhone | 18999.00 | Electronics |
```

2	T-Shirt	499.00	Clothing
4	Laptop	45999.00	Electronics

3 rows in set (0.01 sec)

2. USE VIEWS FOR ABSTRACTION AND SECURITY

```
mysql> CREATE VIEW Public_Users AS
-> Select user_id, u_name
-> From User;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * From Public_Users;
+-----+-----+
| user_id | u_name |
+-----+-----+
| 1 | Aaliya |
| 2 | Rahul Sharma |
| 4 | Neha |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> Create View Payment_Summary AS
-> Select user_id, SUM(amount) AS total_payment
-> From payment
-> GROUP BY user_id;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * From Payment_Summary;
+-----+-----+
| user_id | total_payment |
+-----+-----+
| 1 | 20498.00 |
| 2 | 1999.00 |
+-----+-----+
2 rows in set (0.01 sec)
```

```
mysql> create view Order_Abstract AS
-> Select o.order_no, u.u_name, o.order_date
-> From Orders o
-> Join User u ON o.user_id = u.user_id;
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> Select * From Order_Abstract;
+-----+-----+-----+
| order_no | u_name | order_date |
+-----+-----+-----+
| 101 | Aaliya | 2025-06-22 |
| 102 | Rahul Sharma | 2025-06-23 |
+-----+-----+-----+
2 rows in set (0.00 sec)
```