

Joins and Views

-- To get a monthly revenue

Code:

```
SELECT MONTH(order_date) AS Month, SUM(Order_total) AS Revenue  
  
FROM Orders  
  
GROUP BY MONTH(order_date);
```

--To check customers with products ordered and with products price and payment status pending.

```
select CUST_NAME,P_price,P_name,Payment_status  
  
from customers join orders on customers.C_id=Orders.c_id  
  
join products on orders.P_id= Products.P_id  
  
join payment on payment.Order_id=orders.Order_id  
  
and payment.Payment_status='pending';
```

--To check how many customers ordered nivea lotion product.

select count(*)

from orders join products on orders.P_id=products.P_id

and products.P_name='nivea lotion';

To check customers details with product ordered with quantity & delivery status . some delivery status is null as this customers payment is pending and not shipped due to which its showing null as full outer join gives match along with unmatched records.

SELECT

customers.cust_name,customers.cust_num,customers.cust_loc,orders.order_id,products.p_name,products.p_price,orders.order_quantity,shipping.delivery_status

FROM customers LEFT JOIN orders ON customers.c_id = orders.c_id

LEFT JOIN products ON orders.p_id = products.p_id

LEFT JOIN shipping ON orders.order_id = shipping.order_id

UNION

-- RIGHT JOIN part

SELECT

customers.cust_name,customers.cust_num,customers.cust_loc,orders.order_id,products.p_name,products.p_price,orders.order_quantity,shipping.delivery_status

FROM customers RIGHT JOIN orders ON customers.c_id = orders.c_id

In absence of database handler/admin we can give access to particular part using view without giving access to actual database.

```
CREATE VIEW customers_details AS

SELECT customers.CUST_NAME, customers.CUST_NUM, orders.Order_id AS order_id,
orders.Order_quantity,

    orders.order_status, orders.Order_total, products.P_name, payment.Payment_status, shipping.shipping_date,
shipping.delivery_status

FROM customers LEFT JOIN orders ON customers.C_id = orders.C_id

LEFT JOIN products ON orders.P_id = products.P_id

LEFT JOIN shipping ON orders.order_id = shipping.Order_id

LEFT JOIN payment ON payment.Order_id = orders.Order_id

WHERE order_status = 'pending' AND payment.Payment_status = 'Pending'

UNION

SELECT customers.CUST_NAME, customers.CUST_NUM, orders.Order_id AS order_id,
orders.Order_quantity, orders.order_status, orders.Order_total, products.P_name, payment.Payment_status,

    shipping.shipping_date, shipping.delivery_status

FROM customers RIGHT JOIN orders ON customers.C_id = orders.C_id

RIGHT JOIN products ON orders.P_id = products.P_id

RIGHT JOIN shipping ON orders.order_id = shipping.Order_id

RIGHT JOIN payment ON payment.Order_id = orders.Order_id

WHERE order_status = 'pending' AND payment.Payment_status = 'Pending';
```

Sales report view

```
create view revenue  
  
as  
  
SELECT MONTH(order_date) AS Month, SUM(Order_total) AS Revenue  
  
FROM Orders  
  
GROUP BY MONTH(order_date);
```

Total Sales Report

```
SELECT  
  
    SUM(order_total) AS total_sales,  
  
    COUNT(order_id) AS total_orders  
  
FROM orders  
  
WHERE order_status = 'Completed';
```