

Restaurant Management System

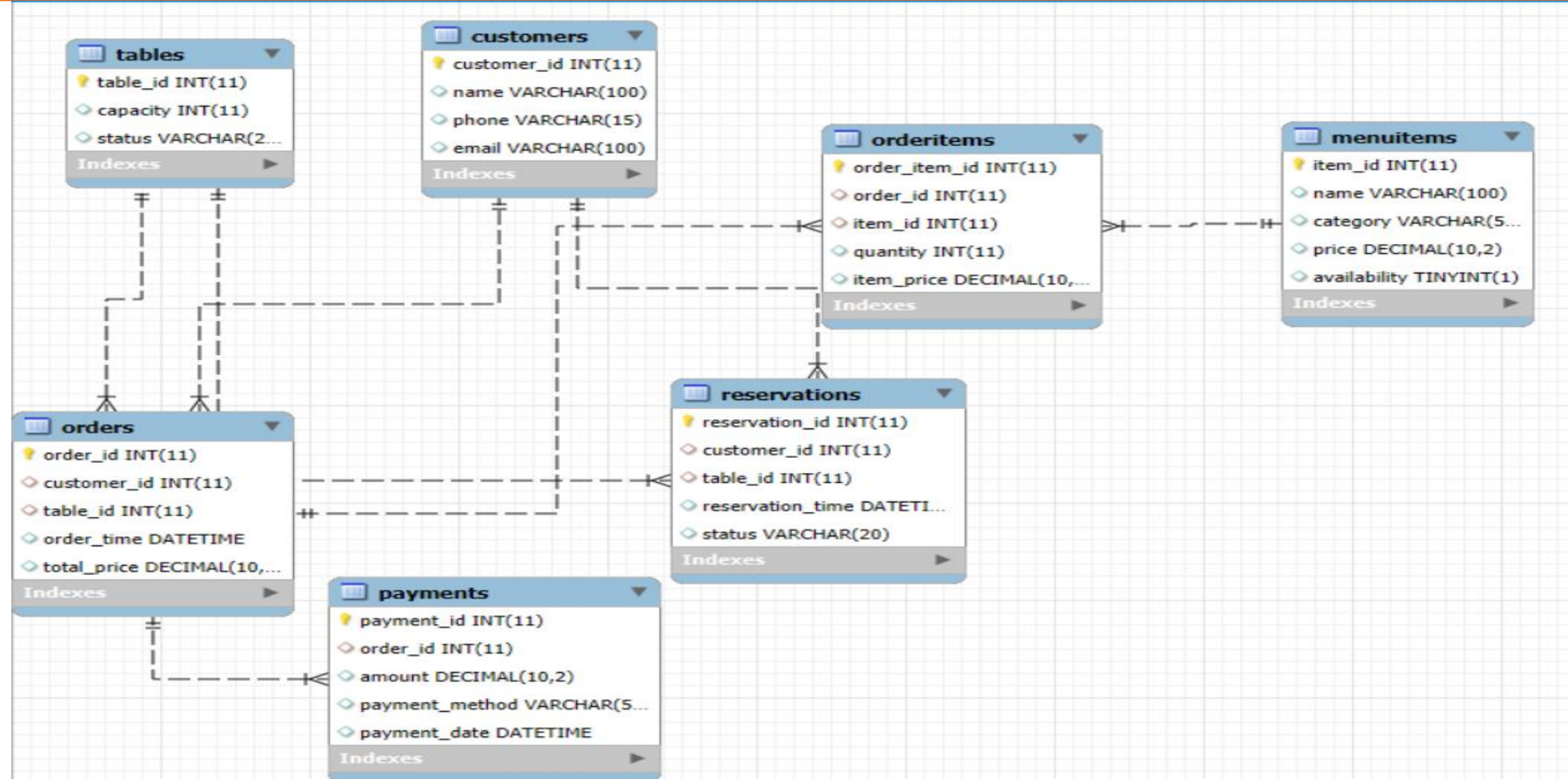


ABSTRACT :



- This project is about creating a Restaurant Management System using SQL. The system helps manage daily restaurant tasks like booking tables, taking food orders, managing the menu, handling employees, and processing payments.
- We have built a database with tables for customers, orders, menu items, employees, and more. Using SQL, we can connect this data to find useful information, like total sales or most popular dishes. We also use stored procedures and triggers to make some tasks automatic, like updating table status or recording payments when an order is completed.
- This project helps improve the restaurant's operations and shows how SQL can be used in real-life situations to organize and manage business data.

ER-DIAGRAM



CONTENTS OF TABLE

Result Grid |  Filter Rows: | Edit:   Export/Import:

| | customer_id | name | phone | email |
|---|-------------|---------------|------------|-------------------|
| ▶ | 1 | Aarav Mehta | 9123456780 | aarav@email.com |
| | 2 | Kiara Singh | 9988776655 | kiara@email.com |
| | 3 | Rohan Patel | 9876543211 | rohan@email.com |
| | 4 | Simran Kaur | 9811122233 | simran@email.com |
| | 5 | Rahul Verma | 9331122233 | rahul@email.com |
| | 6 | Ishita Das | 9456781234 | ishita@email.com |
| | 7 | Yash Malhotra | 9551236789 | yash@email.com |
| | 8 | Anaya Reddy | 9789012345 | anaya@email.com |
| | 9 | Manav Joshi | 9623412789 | manav@email.com |
| | 10 | Tanya Desai | 9881234567 | tanya@email.com |
| | 11 | Dev Sharma | 9111222333 | dev@email.com |
| | 12 | Pooja Joshi | 9223344556 | pooja@email.com |
| | 13 | Amit Saxena | 9345678910 | amit@email.com |
| | 14 | Riya Banerjee | 9789011223 | riya@email.com |
| | 15 | Kabir Singh | 9561237890 | kabir@email.com |
| | 16 | Nisha Menon | 9123456000 | nisha@email.com |
| | 17 | Sarthak Rao | 9678901234 | sarthak@email.com |
| | 18 | Ira Kapoor | 9887766554 | ira@email.com |
| | 19 | Mohit Ahuja | 9345674321 | mohit@email.com |
| | 20 | Tanvi Iyer | 9445566778 | tanvi@email.com |
| | 21 | Parth Yadav | 9834452211 | parth@email.com |
| | 22 | Jaya Mishra | 9556677880 | jaya@email.com |
| | 23 | Karan Oberoi | 9483345678 | karan@email.com |
| | 24 | Snehal Shah | 9123451111 | snehal@email.com |

Select * from Customers;


CONTENTS OF TABLE




| Result Grid | Filter Rows: | Edit: | Export/Import |
|-------------|--------------|-----------|---------------|
| table_id | capacity | status | |
| 1 | 2 | Available | |
| 2 | 4 | Occupied | |
| 3 | 6 | Reserved | |
| 4 | 2 | Available | |
| 5 | 4 | Available | |
| 6 | 6 | Occupied | |
| 7 | 2 | Reserved | |
| 8 | 4 | Available | |
| 9 | 6 | Available | |
| 10 | 2 | Occupied | |
| 11 | 2 | Available | |
| 12 | 4 | Reserved | |
| 13 | 6 | Occupied | |
| 14 | 2 | Reserved | |
| 15 | 4 | Available | |
| 16 | 6 | Available | |
| 17 | 4 | Occupied | |
| 18 | 2 | Available | |
| 19 | 6 | Reserved | |
| 20 | 2 | Occupied | |
| 21 | 4 | Available | |
| 22 | 6 | Available | |
| 23 | 2 | Reserved | |
| 24 | 4 | Occupied | |

Select * from Tables;

CONTENTS OF TABLE

Result Grid

 Filter Rows:


Edit:   

Export/Imp

| item_id | name | category | price | availability |
|---------|----------------------|-------------|-------|--------------|
| 1 | Paneer Butter Masala | Main Course | 9.50 | 1 |
| 2 | Tomato Soup | Starter | 4.00 | 1 |
| 3 | Mango Lassi | Beverage | 2.50 | 1 |
| 4 | Veg Biryani | Main Course | 8.25 | 1 |
| 5 | Tandoori Roti | Bread | 1.50 | 1 |
| 6 | Masala Dosa | Main Course | 6.75 | 1 |
| 7 | Cold Coffee | Beverage | 3.25 | 1 |
| 8 | Spring Rolls | Starter | 5.00 | 1 |
| 9 | Butter Naan | Bread | 2.00 | 1 |
| 10 | Gulab Jamun | Dessert | 3.00 | 1 |
| 11 | Dal Tadka | Main Course | 7.50 | 1 |
| 12 | Vegetable Soup | Starter | 3.50 | 1 |
| 13 | Masala Chaas | Beverage | 2.00 | 1 |
| 14 | Chole Bhature | Main Course | 8.00 | 1 |
| 15 | Butter Naan | Bread | 2.25 | 1 |
| 16 | Aloo Paratha | Bread | 4.00 | 1 |
| 17 | Mango Lassi | Beverage | 3.25 | 1 |
| 18 | Paneer Tikka | Starter | 6.50 | 1 |
| 19 | Methi Thepla | Bread | 3.75 | 1 |
| 20 | Gulab Jamun | Dessert | 2.50 | 1 |
| 21 | Masala Pulao | Main Course | 7.00 | 1 |
| 22 | Veg Pakora | Starter | 4.25 | 1 |
| 23 | Cold Coffee | Beverage | 3.00 | 1 |
| 24 | Veg Korma | Main Course | 8.50 | 1 |

```
select * from MenuItems;
```






CONTENTS OF TABLE

Result Grid |  Filter Rows: | Edit:    | Export/Import:

| | employee_id | name | role | shift_time |
|---|-------------|---------------|---------|------------|
| ▶ | 1 | Neha Kapoor | Waiter | Morning |
| | 2 | Aditya Roy | Chef | Evening |
| | 3 | Sneha Sharma | Manager | Full Day |
| | 4 | Vikram Rana | Waiter | Evening |
| | 5 | Priya Nair | Chef | Morning |
| | 6 | Kunal Sethi | Waiter | Night |
| | 7 | Divya Chauhan | Host | Full Day |
| | 8 | Ravi Kumar | Waiter | Morning |
| | 9 | Meena Pillai | Chef | Night |
| | 10 | Ankit Gupta | Cleaner | Night |
| | 11 | Ravi Kapoor | Waiter | Morning |
| | 12 | Amit Sharma | Chef | Evening |
| | 13 | Pooja Iyer | Manager | Full Day |
| | 14 | Sanjay Verma | Waiter | Night |
| | 15 | Neha Patel | Chef | Morning |
| | 16 | Vikram Joshi | Cleaner | Night |
| | 17 | Divya Kapoor | Host | Full Day |
| | 18 | Priya Nair | Waiter | Morning |
| | 19 | Ankit Mehta | Chef | Evening |
| | 20 | Rohan Sethi | Manager | Full Day |
| | 21 | Tanu Sharma | Waiter | Night |
| | 22 | Sonal Reddy | Chef | Morning |
| | 23 | Manav Verma | Cleaner | Night |
| | 24 | Ayesha Khan | Host | Full Day |

select * from Employees;


CONTENTS OF TABLE

| Result Grid | | | | | |
|---|----------|-------------|----------|---------------------|-------------|
| Filter Rows: <input type="text"/> | | | | | |
| Edit:    | | | | | |
| Export/Import:   | | | | | |
| | order_id | customer_id | table_id | order_time | total_price |
| ▶ | 1 | 1 | 2 | 2025-05-01 18:10:00 | 16.00 |
| | 2 | 2 | 3 | 2025-05-01 18:25:00 | 12.75 |
| | 3 | 3 | 5 | 2025-05-01 18:40:00 | 18.50 |
| | 4 | 4 | 1 | 2025-05-01 19:00:00 | 11.00 |
| | 5 | 5 | 4 | 2025-05-01 19:15:00 | 22.75 |
| | 6 | 6 | 6 | 2025-05-01 19:30:00 | 10.00 |
| | 7 | 7 | 7 | 2025-05-01 19:50:00 | 15.25 |
| | 8 | 8 | 8 | 2025-05-01 20:10:00 | 14.00 |
| | 9 | 9 | 9 | 2025-05-01 20:30:00 | 17.75 |
| | 10 | 10 | 10 | 2025-05-01 20:50:00 | 19.00 |
| | 11 | 11 | 1 | 2025-05-02 12:00:00 | 13.25 |
| | 12 | 12 | 2 | 2025-05-02 12:20:00 | 17.50 |
| | 13 | 13 | 3 | 2025-05-02 12:40:00 | 11.75 |
| | 14 | 14 | 4 | 2025-05-02 13:00:00 | 14.00 |
| | 15 | 15 | 5 | 2025-05-02 13:30:00 | 20.25 |
| | 16 | 16 | 6 | 2025-05-02 13:45:00 | 15.00 |
| | 17 | 17 | 7 | 2025-05-02 14:00:00 | 18.50 |
| | 18 | 18 | 8 | 2025-05-02 14:20:00 | 16.75 |
| | 19 | 19 | 9 | 2025-05-02 14:45:00 | 22.00 |
| | 20 | 20 | 10 | 2025-05-02 15:10:00 | 12.00 |
| | 21 | 1 | 1 | 2025-05-03 12:15:00 | 14.50 |
| | 22 | 2 | 2 | 2025-05-03 12:30:00 | 10.25 |
| | 23 | 3 | 3 | 2025-05-03 12:45:00 | 19.00 |
| | 24 | 4 | 4 | 2025-05-03 13:00:00 | 17.75 |

```
select * from Orders;
```



CONTENTS OF TABLE


Result Grid




Filter Rows:

Edit:











Export/Import

| | order_item_id | order_id | item_id | quantity | item_price |
|---|---------------|----------|---------|----------|------------|
| ▶ | 1 | 1 | 1 | 1 | 9.50 |
| | 2 | 1 | 3 | 1 | 2.50 |
| | 3 | 1 | 2 | 1 | 4.00 |
| | 4 | 2 | 4 | 1 | 8.25 |
| | 5 | 2 | 5 | 2 | 1.50 |
| | 6 | 3 | 6 | 1 | 6.75 |
| | 7 | 3 | 7 | 1 | 3.25 |
| | 8 | 3 | 10 | 2 | 3.00 |
| | 9 | 4 | 8 | 1 | 5.00 |
| | 10 | 4 | 9 | 2 | 2.00 |
| | 11 | 11 | 1 | 1 | 9.50 |
| | 12 | 11 | 5 | 2 | 1.50 |
| | 13 | 12 | 2 | 1 | 4.00 |
| | 14 | 12 | 3 | 1 | 2.50 |
| | 15 | 13 | 4 | 1 | 8.25 |
| | 16 | 13 | 10 | 1 | 3.00 |
| | 17 | 14 | 6 | 1 | 6.75 |
| | 18 | 14 | 7 | 1 | 3.25 |
| | 19 | 15 | 1 | 2 | 9.50 |
| | 20 | 15 | 9 | 2 | 2.00 |
| | 21 | 16 | 8 | 1 | 5.00 |
| | 22 | 16 | 10 | 1 | 3.00 |
| | 23 | 17 | 4 | 1 | 8.25 |
| | 24 | 17 | 3 | 2 | 2.50 |

```
select * from OrderItems;
```

CONTENTS OF TABLE

| Result Grid |  | Filter Rows: <input type="text"/> | Edit:  |  | Export/Import:  |
|-------------|---|-----------------------------------|---|--|--|
| | reservation_id | customer_id | table_id | reservation_time | status |
| | 15 | 5 | 5 | 2025-05-05 18:00:00 | Completed |
| | 16 | 6 | 6 | 2025-05-05 18:30:00 | Confirmed |
| | 17 | 7 | 7 | 2025-05-05 19:00:00 | Pending |
| | 18 | 8 | 8 | 2025-05-05 19:30:00 | Confirmed |
| | 19 | 9 | 9 | 2025-05-06 18:00:00 | Cancelled |
| | 20 | 10 | 10 | 2025-05-06 18:30:00 | Completed |
| | 21 | 1 | 1 | 2025-05-06 19:00:00 | Confirmed |
| | 22 | 2 | 2 | 2025-05-06 19:30:00 | Confirmed |
| | 23 | 3 | 3 | 2025-05-07 18:00:00 | Pending |
| | 24 | 4 | 4 | 2025-05-07 18:30:00 | Completed |
| | 25 | 5 | 5 | 2025-05-07 19:00:00 | Confirmed |
| | 26 | 6 | 6 | 2025-05-07 19:30:00 | Pending |
| | 27 | 7 | 7 | 2025-05-08 18:00:00 | Completed |
| | 28 | 8 | 8 | 2025-05-08 18:30:00 | Confirmed |
| | 29 | 9 | 9 | 2025-05-08 19:00:00 | Cancelled |
| | 30 | 10 | 10 | 2025-05-08 19:30:00 | Confirmed |
| | NULL | NULL | NULL | NULL | NULL |

```
select * from Reservations;
```

CONTENTS OF TABLE

| | | | | |
|-------------|---|---|---|--|
| Result Grid |  |  Filter Rows: <input type="text"/> | Edit:    | Export/Import:  |
|-------------|---|---|---|--|

| | payment_id | order_id | amount | payment_method | payment_date |
|---|------------|----------|--------|----------------|---------------------|
| ▶ | 1 | 1 | 16.00 | Card | 2025-05-01 18:20:00 |
| | 2 | 2 | 12.75 | Cash | 2025-05-01 18:35:00 |
| | 3 | 3 | 18.50 | UPI | 2025-05-01 18:55:00 |
| | 4 | 4 | 11.00 | Cash | 2025-05-01 19:10:00 |
| | 5 | 5 | 22.75 | Card | 2025-05-01 19:25:00 |
| | 6 | 6 | 10.00 | UPI | 2025-05-01 19:45:00 |
| | 7 | 7 | 15.25 | Card | 2025-05-01 20:00:00 |
| | 8 | 8 | 14.00 | Cash | 2025-05-01 20:20:00 |
| | 9 | 9 | 17.75 | Card | 2025-05-01 20:40:00 |
| | 10 | 10 | 19.00 | UPI | 2025-05-01 21:00:00 |
| | 11 | 11 | 13.25 | Card | 2025-05-02 00:00:00 |
| | 12 | 12 | 17.50 | Cash | 2025-05-02 00:00:00 |
| | 13 | 13 | 11.75 | UPI | 2025-05-02 00:00:00 |
| | 14 | 14 | 14.00 | Card | 2025-05-02 00:00:00 |
| | 15 | 15 | 20.25 | UPI | 2025-05-02 00:00:00 |
| | 16 | 16 | 15.00 | Cash | 2025-05-02 00:00:00 |
| | 17 | 17 | 18.50 | Card | 2025-05-02 00:00:00 |
| | 18 | 18 | 16.75 | UPI | 2025-05-02 00:00:00 |
| | 19 | 19 | 22.00 | Cash | 2025-05-02 00:00:00 |
| | 20 | 20 | 12.00 | UPI | 2025-05-02 00:00:00 |
| | 21 | 21 | 14.50 | Card | 2025-05-03 00:00:00 |
| | 22 | 22 | 10.25 | Cash | 2025-05-03 00:00:00 |
| | 23 | 23 | 19.00 | UPI | 2025-05-03 00:00:00 |
| | 24 | 24 | 17.75 | Card | 2025-05-03 00:00:00 |

```
select * from Payments;
```




SUBQUERY

A subquery is a query that appears inside another query statement

SUBQUERY

| Result Grid | | | |
|--------------|-------------|----------|-------------|
| Filter Rows: | | | |
| | name | order_id | total_price |
| ▶ | Mohit Ahuja | 19 | 22.00 |
| | Kabir Singh | 15 | 20.25 |
| | Aarav Mehta | 1 | 16.00 |
| | Dev Sharma | 11 | 13.25 |

1. Find Customers who ordered the most expensive item

```
select Customers.name, Orders.order_id, Orders.total_price from
Customers, Orders, OrderItems WHERE Customers.customer_id =
Orders.customer_id and Orders.order_id = OrderItems.order_id and
OrderItems.item_id = ( select item_id FROM MenuItem where
price = ( select max(price) from MenuItem ))order by
Orders.total_price desc;
```

This query identifies **customers** who have ordered the **most expensive item** available on the menu

SUBQUERY

| Result Grid | | | Filter Rows: |
|-------------|----------------------|-------|--------------|
| | name | price | |
| ▶ | Butter Naan | 2.00 | |
| | Cold Coffee | 3.25 | |
| | Gulab Jamun | 3.00 | |
| | Mango Lassi | 2.50 | |
| | Masala Dosa | 6.75 | |
| | Paneer Butter Masala | 9.50 | |
| | Spring Rolls | 5.00 | |
| | Tandoori Roti | 1.50 | |
| | Tomato Soup | 4.00 | |
| | Veg Biryani | 8.25 | |

2. Find Menu Items that were ordered more than once

```
select MenuItems.name, MenuItems.price from MenuItems where  
MenuItems.item_id IN ( select item_id from OrderItems group by  
item_id having count(*) > 1)order by MenuItems.name;
```

This finds the **menu items** that were ordered more than **once**, based on the orderitem table.

SUBQUERY

| Result Grid | Filter Rows: | Export: |
|-------------|--------------|-------------|
| name | order_id | total_price |
| Rahul Verma | 5 | 22.75 |
| Mohit Ahuja | 19 | 22.00 |
| Rahul Verma | 25 | 21.50 |
| Kabir Singh | 15 | 20.25 |
| Rohan Patel | 23 | 19.00 |
| Tanya Desai | 10 | 19.00 |
| Sarthak Rao | 17 | 18.50 |
| Rohan Patel | 3 | 18.50 |
| Anaya Reddy | 28 | 18.25 |
| Manav Joshi | 9 | 17.75 |
| Simran Kaur | 24 | 17.75 |
| Pooja Joshi | 12 | 17.50 |
| Ira Kapoor | 18 | 16.75 |
| Tanya Desai | 30 | 16.75 |
| Aarav Mehta | 1 | 16.00 |

3. Find Customers who made orders with a total greater than ₹20

```
select Customers.name, Orders.order_id, Orders.total_price from
Customers, Orders where Customers.customer_id =
Orders.customer_id and Orders.total_price > ( select
avg(total_price) from Orders)order by Orders.total_price desc;
```



This query lists the **customers** who placed orders where the **total price** is greater than the **average price** of all orders.



JOINS

Joins indicate how SQL Server should use data from one table to select the rows in another table

JOINS



| Result Grid |  |  | Filter Rows: | Exp |
|-------------|---|---|--------------|-----|
| | order_id | customer_name | table_id | |
| 1 | 1 | Aarav Mehta | 2 | |
| 2 | 2 | Kiara Singh | 3 | |
| 3 | 3 | Rohan Patel | 5 | |
| 4 | 4 | Simran Kaur | 1 | |
| 5 | 5 | Rahul Verma | 4 | |
| 6 | 6 | Ishita Das | 6 | |
| 7 | 7 | Yash Malhotra | 7 | |
| 8 | 8 | Anaya Reddy | 8 | |
| 9 | 9 | Manav Joshi | 9 | |
| 10 | 10 | Tanya Desai | 10 | |
| 11 | 11 | Dev Sharma | 1 | |
| 12 | 12 | Pooja Joshi | 2 | |
| 13 | 13 | Amit Saxena | 3 | |
| 14 | 14 | Riya Banerjee | 4 | |
| 15 | 15 | Kabir Singh | 5 | |
| 16 | 16 | Nisha Menon | 6 | |
| 17 | 17 | Sarthak Rao | 7 | |
| 18 | 18 | Ira Kapoor | 8 | |
| 19 | 19 | Mohit Ahuja | 9 | |
| 20 | 20 | Tanvi Iyer | 10 | |
| 21 | 21 | Aarav Mehta | 1 | |
| 22 | 22 | Kiara Singh | 2 | |
| 23 | 23 | Rohan Patel | 3 | |

1. INNER JOIN: List all orders with customer names and table numbers

```
select Orders.order_id, Customers.name as customer_name,
Tables.table_id from Orders inner join Customers on
Orders.customer_id = Customers.customer_id inner join Tables on
Orders.table_id = Tables.table_id;
```

Shows all orders that have valid customer and table information.
Filters out unmatched data.

JOINS



| Result Grid  Filter Rows: <input type="text"/> | | | |  | |
|---|---------------|---------------------|----------|---|--|
| | name | reservation_time | status | | |
| ▶ | Aarav Mehta | 2025-05-01 17:00:00 | Reserved | | |
| | Ishita Das | 2025-05-01 19:30:00 | Reserved | | |
| | Rohan Patel | 2025-05-04 20:00:00 | Reserved | | |
| | Yash Malhotra | 2025-05-05 19:00:00 | Reserved | | |
| | Rohan Patel | 2025-05-07 18:00:00 | Reserved | | |
| | Yash Malhotra | 2025-05-08 18:00:00 | Reserved | | |

2.Show reservations with customer names and table status

```
select Customers.name, Reservations.reservation_time,
Tables.status
from Reservations
inner join Customers on
Reservations.customer_id = Customers.customer_id
inner join Tables on Reservations.table_id = Tables.table_id
where Tables.status = 'Reserved';
```

Displays reservations where the **table is marked as 'Reserved'**, along with the **customer name** and **reservation time**.

JOINS

| Result Grid   Filter Rows: <input type="text"/> | | | |
|---|----------------------|----------|----------|
| | name | order_id | quantity |
| | Gulab Jamun | 3 | 2 |
| | Spring Rolls | 4 | 1 |
| | Butter Naan | 4 | 2 |
| | Paneer Butter Masala | 11 | 1 |
| | Tandoori Roti | 11 | 2 |
| | Tomato Soup | 12 | 1 |
| | Mango Lassi | 12 | 1 |
| | Veg Biryani | 13 | 1 |
| | Gulab Jamun | 13 | 1 |
| | Masala Dosa | 14 | 1 |
| | Cold Coffee | 14 | 1 |
| | Paneer Butter Masala | 15 | 2 |
| | Butter Naan | 15 | 2 |
| | Spring Rolls | 16 | 1 |
| | Gulab Jamun | 16 | 1 |
| | Veg Biryani | 17 | 1 |
| | Mango Lassi | 17 | 2 |
| | Masala Dosa | 18 | 2 |
| | Tomato Soup | 18 | 1 |
| | Paneer Butter Masala | 19 | 1 |
| | Gulab Jamun | 19 | 2 |
| | Cold Coffee | 20 | 1 |
| | Tandoori Roti | 20 | 3 |

3. Show all menu items and any order they appeared in

```
select MenuItems.name, OrderItems.order_id,  
       OrderItems.quantity from MenuItems      left join  
       OrderItems on MenuItems.item_id = OrderItems.item_id  
where OrderItems.order_id is not null;
```

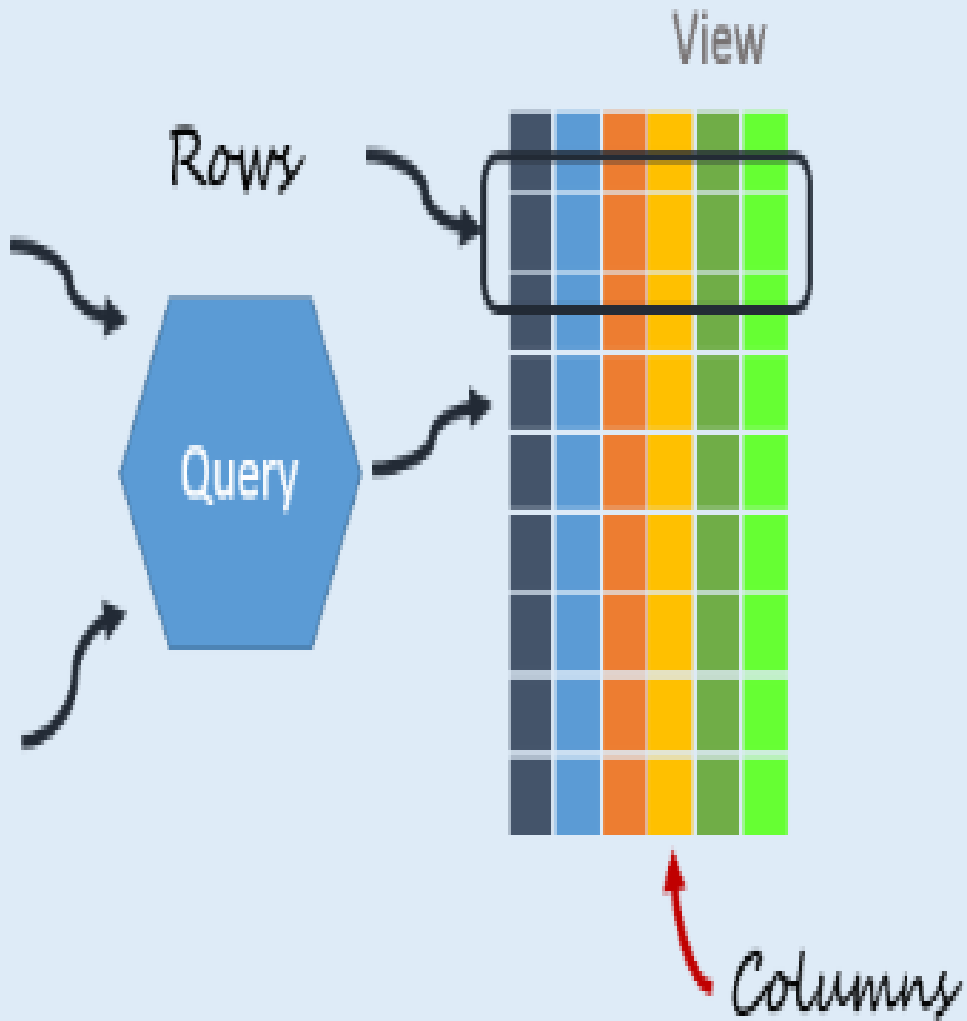
Lists all **menu items** that have been **ordered at least once**.
Menu items not yet ordered are excluded.

Table A

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Table B

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |



VIEW

View is a virtual table based on the result-set of an SQL statement

VIEW

Result Grid |   Filter Rows: | Export:  | Wrap Cell Co

| | customer_name | order_id | total_price | order_time |
|---|---------------|----------|-------------|---------------------|
| ▶ | Aarav Mehta | 1 | 16.00 | 2025-05-01 18:10:00 |
| | Kiara Singh | 2 | 12.75 | 2025-05-01 18:25:00 |
| | Rohan Patel | 3 | 18.50 | 2025-05-01 18:40:00 |
| | Simran Kaur | 4 | 11.00 | 2025-05-01 19:00:00 |
| | Rahul Verma | 5 | 22.75 | 2025-05-01 19:15:00 |
| | Ishita Das | 6 | 10.00 | 2025-05-01 19:30:00 |
| | Yash Malhotra | 7 | 15.25 | 2025-05-01 19:50:00 |
| | Anaya Reddy | 8 | 14.00 | 2025-05-01 20:10:00 |
| | Manav Joshi | 9 | 17.75 | 2025-05-01 20:30:00 |
| | Tanya Desai | 10 | 19.00 | 2025-05-01 20:50:00 |
| | Dev Sharma | 11 | 13.25 | 2025-05-02 12:00:00 |
| | Pooja Joshi | 12 | 17.50 | 2025-05-02 12:20:00 |
| | Amit Saxena | 13 | 11.75 | 2025-05-02 12:40:00 |
| | Riya Banerjee | 14 | 14.00 | 2025-05-02 13:00:00 |
| | Kabir Singh | 15 | 20.25 | 2025-05-02 13:30:00 |
| | Nisha Menon | 16 | 15.00 | 2025-05-02 13:45:00 |
| | Sarthak Rao | 17 | 18.50 | 2025-05-02 14:00:00 |
| | Ira Kapoor | 18 | 16.75 | 2025-05-02 14:20:00 |
| | Mohit Ahuja | 19 | 22.00 | 2025-05-02 14:45:00 |
| | Tanvi Iyer | 20 | 12.00 | 2025-05-02 15:10:00 |
| | Aarav Mehta | 21 | 14.50 | 2025-05-03 12:15:00 |
| | Kiara Singh | 22 | 10.25 | 2025-05-03 12:30:00 |
| | Rohan Patel | 23 | 19.00 | 2025-05-03 12:45:00 |
| | Simran Kaur | 24 | 17.75 | 2025-05-03 13:00:00 |
| | Rahul Verma | 25 | 21.50 | 2025-05-03 13:15:00 |
| | Ishita Das | 26 | 10.00 | 2025-05-03 13:30:00 |

Customer Order Summary

```
create or replace view CustomerOrderSummary as
select
  Customers.name as
  customer_name,Orders.order_id,Orders.total_price,
  Orders.order_timefrom Customersjoin Orders on
  Customers.customer_id = Orders.customer_id;
select * from CustomerOrderSummary;
```

Quickly see each customer's orders, total amount, and time.

VIEW

Result Grid



Filter Rows:



| | name | times_ordered |
|---|----------------------|---------------|
| ▶ | Butter Naan | 2 |
| | Cold Coffee | 3 |
| | Gulab Jamun | 4 |
| | Mango Lassi | 3 |
| | Masala Dosa | 3 |
| | Paneer Butter Masala | 4 |
| | Spring Rolls | 2 |
| | Tandoori Roti | 3 |
| | Tomato Soup | 3 |
| | Veg Biryani | 3 |

View: Popular Menu Items (Ordered More Than Once)

```
create or replace view PopularItems as select
MenuItems.name,count(OrderItems.item_id) as times_ordered
from MenuItems
join OrderItems on MenuItems.item_id =
OrderItems.item_idgroup by MenuItems.namehaving
count(OrderItems.item_id) > 1;
select * from PopularItems;
```

Identify best-selling or frequently ordered menu items.

VIEW

| Result Grid   Filter Rows: <input type="text"/> | | | |
|---|----------------|---------|------------|
| | employee_name | role | shift_time |
| ▶ | Amit Sharma | Chef | Evening |
| | Ankit Mehta | Chef | Evening |
| | Vikram Rana | Waiter | Evening |
| | Meera Bhat | Chef | Evening |
| | Aditya Roy | Chef | Evening |
| | Pooja Iyer | Manager | Full Day |
| | Divya Kapoor | Host | Full Day |
| | Rajeev Shah | Manager | Full Day |
| | Sneha Sharma | Manager | Full Day |
| | Divya Chauhan | Host | Full Day |
| | Rohan Sethi | Manager | Full Day |
| | Ayesha Khan | Host | Full Day |
| | Tanvi Desai | Waiter | Morning |
| | Priya Nair | Waiter | Morning |
| | Neha Patel | Chef | Morning |
| | Neha Kapoor | Waiter | Morning |
| | Ravi Kapoor | Waiter | Morning |
| | Ravi Kumar | Waiter | Morning |
| | Nisha Malhotra | Chef | Morning |
| | Priya Nair | Chef | Morning |
| | Sonal Reddy | Chef | Morning |
| | Karan Ahuja | Waiter | Night |
| | Manav Verma | Cleaner | Night |
| | Tanu Sharma | Waiter | Night |
| | Vikram Joshi | Cleaner | Night |

Employee Shift Overview

create or replace view EmployeeShiftView as select name as employee_name,role, shift_time from Employees order by shift_time;

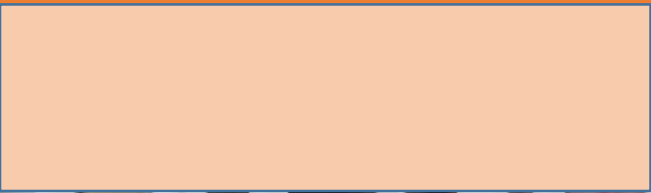
select * from EmployeeShiftView;

View all employees organized by their shift for easy scheduling.

Conclusion:

- . Identified customers who ordered the **most expensive menu item**.
- . Found menu items that were **ordered more than once**, showing how frequently certain items are chosen by customers.
- . Listed customers who placed **high-value orders**, meaning their total order price was **above the average** of all orders.
- . Displays only **orders with matching customer and table details**, removing any incomplete or unmatched records.
- . Shows **reservations with 'Reserved' tables**, including the **customer's name** and **reservation time**.
- . Displays **menu items that were ordered at least once**, leaving out items that haven't been ordered yet.
- . Provides a quick view of **each customer's orders**, including the **total amount** and **order time**.
- . Highlights **popular menu items** that were **ordered most often** by customers.
- . Organizing employees by shift in a table format helps you visually sort them for easy reference when planning schedules. Simple sorting and filtering features can further streamline this process.

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From ITVedant



Thank you