

RESTAURANT DATABASE

INTRODUCTION

The restaurant ordering system is very important for a restaurant to be successful because it affects how happy customers are and how much money the restaurant makes. The old way of writing orders on paper can be slow and mistakes can happen, which can make customers upset and cause the restaurant to lose money. To solve these problems, our SQL project on the restaurant ordering system aims to provide a comprehensive solution to manage the restaurant's ordering process efficiently and accurately.

We made a plan (called a *schema*) that uses different tables to store information about customers, their orders, menu items, and staff.

The **customer table** stores important information like their name, address, phone number and email.

The **menu item table** has information about all the food and drinks the restaurant serves, like their names and prices.

The **orders table** is used to store data on customer orders, which include order ID, order date, customer ID and total cost of the order.

The **staff table** stores data on the restaurant staff, including staff ID, name, position, hourly rate, and hire date.

Our SQL code includes create table statements for each table, which define the table's structure by specifying its attributes, such as the data types, size, and constraints that need to be followed.

The tables' *primary keys* are used to ensure data integrity and to link the tables using *foreign keys*.

There is a *one-to-many* relationship between the "*customer_id*" column in the "**customer**" table and the "*customer_id*" column in the "**order**" table.

This means that each customer can have many orders placed by them, but each order can only belong to one customer. This relationship is established through the use of foreign keys, where the "*customer_id*" column in the "**order**" table references the "*customer_id*" column in the "**customer**" table.

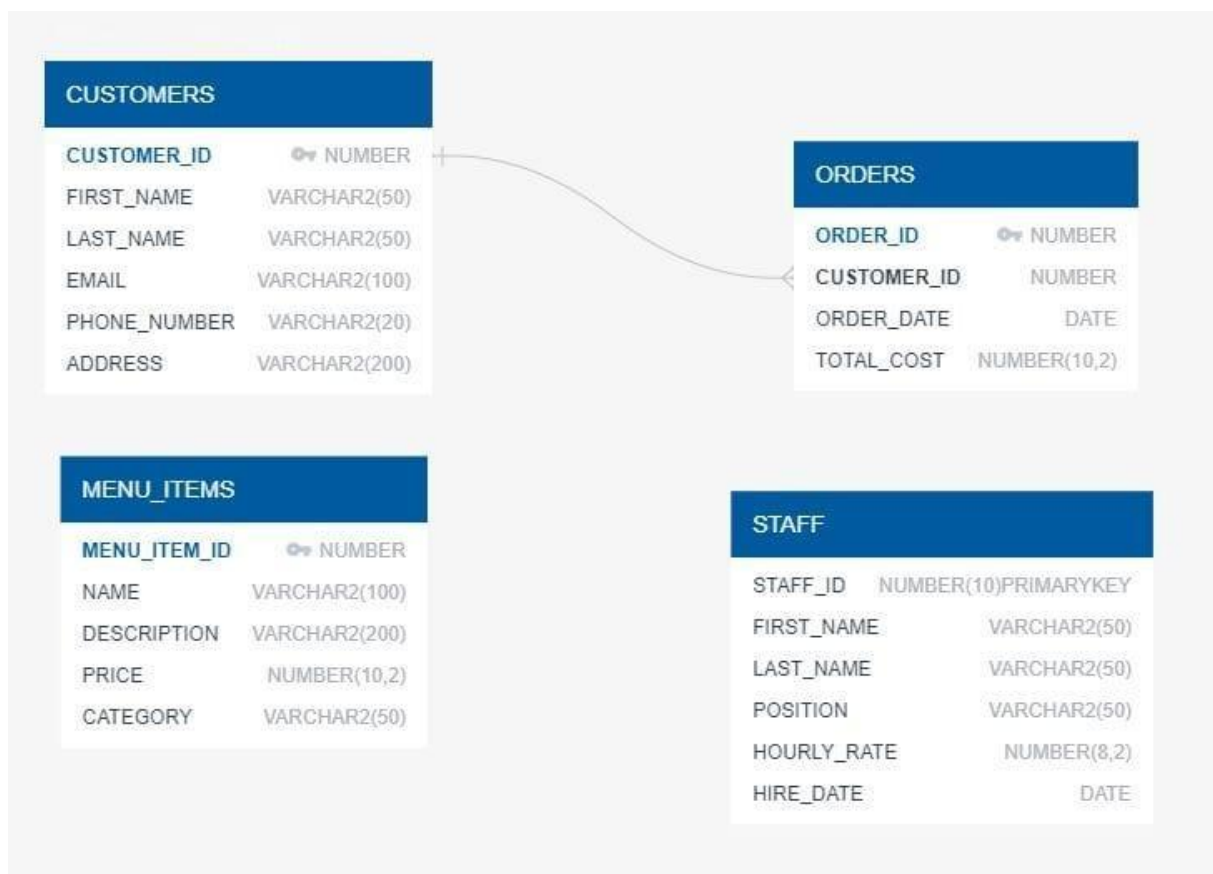
To sum up, our restaurant ordering SQL project is a helpful and easy-to-use solution that helps restaurants manage their orders, menu items, and staff with accuracy and ease. The project can be adjusted as needed, with tables, features, and rules being added or removed with ease. This flexible design provides a practical and economical solution for managing restaurant operations and increasing customer happiness and income.

ER DIAGRAM

An entity-relationship diagram (**ERD**) is a *visual* representation of entities, attributes, and relationships between them in a database.

ERDs are useful for visualizing and designing the structure of a database. By using an ERD, we can get a better understanding of the relationships between the different entities in our database and ensure that they are properly defined and optimized for efficient querying and data retrieval.

Below is an E-R Diagram of our *database*

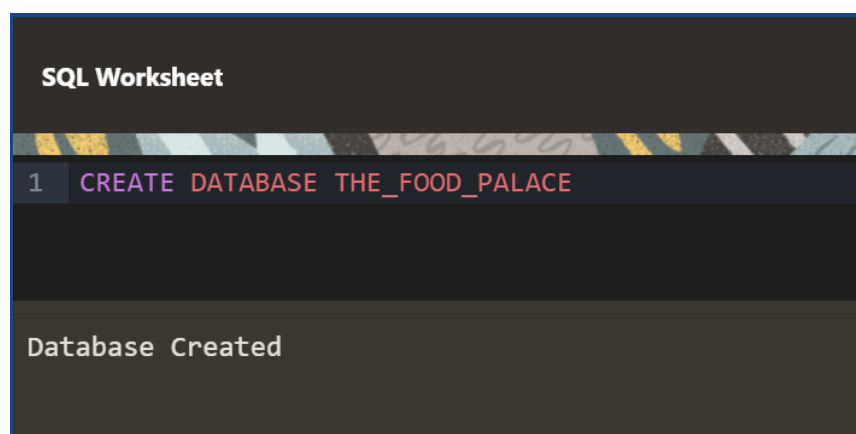


SQL Commands are mainly categorized into the following categories

- 👉 Data Definition Language (**DDL**)
Keywords : CREATE, DROP, ALTER, TRUNCATE
- 👉 Data Manipulation Language (**DML**)
Keywords : INSERT, UPDATE, DELETE
- 👉 Data Query Language (**DQL**)
Keyword : SELECT
- 👉 Data Control Language (**DCL**)
Keywords : GRANT, REVOKE
- 👉 Transaction Control Language (**TCL**)
Keywords : COMMIT, ROLLBACK

My project demonstrates how these keywords are used for various purposes

To begin, I will create a *database* for our restaurant, The Food Palace



The screenshot shows a dark-themed SQL Worksheet interface. At the top, the title "SQL Worksheet" is displayed in white. Below the title is a horizontal bar with a colorful, abstract pattern. The main area of the worksheet contains a single line of SQL code: "1 CREATE DATABASE THE_FOOD_PALACE". The line number "1" is in a dark box, and the code itself is in a light color. Below the code, the text "Database Created" is displayed in white, indicating the successful execution of the command.

Creating tables :

Customers

```
SQL Worksheet

1 CREATE TABLE Customers (
2   customer_id NUMBER PRIMARY KEY,
3   first_name VARCHAR2(50),
4   last_name VARCHAR2(50),
5   email VARCHAR2(100),
6   phone_number VARCHAR2(20),
7   address VARCHAR2(200)
8 );

Table created.
```

Orders

```
SQL Worksheet

1 CREATE TABLE Orders (
2   order_id NUMBER PRIMARY KEY,
3   customer_id NUMBER,
4   order_date DATE,
5   total_cost NUMBER(10,2),
6   CONSTRAINT fk_customer_id FOREIGN KEY (customer_id) REFERENCES Customers(customer_id)
7 );

Table created.
```

Menu Items

```
SQL Worksheet

1 CREATE TABLE Menu_Items (
2   menu_item_id NUMBER PRIMARY KEY,
3   name VARCHAR2(100),
4   description VARCHAR2(200),
5   price NUMBER(10,2),
6   category VARCHAR2(50)
7 );

Table created.
```

Staff Info

```
SQL Worksheet

1 v CREATE TABLE Staff (
2     staff_id NUMBER(5) PRIMARY KEY,
3     first_name VARCHAR2(50),
4     last_name VARCHAR2(50),
5     position VARCHAR2(50),
6     hourly_rate NUMBER(8, 2),
7     hire_date DATE
8 );

Table created.
```

Inserting data in tables :

→ Customers

```
SQL Worksheet

1 v INSERT INTO Customers (customer_id, first_name, last_name, email, phone_number, address)
2 VALUES (1, 'John', 'Wick', 'johnwick@example.com', '123-456-7890', '123 Main St');
3
4 v INSERT INTO Customers (customer_id, first_name, last_name, email, phone_number, address)
5 VALUES (2, 'Jane', 'Austin', 'janeaustin@example.com', '123-456-7891', '456 Oak St');
6
7 v INSERT INTO Customers (customer_id, first_name, last_name, email, phone_number, address)
8 VALUES (3, 'Bob', 'Builder', 'bobbuilder@example.com', '123-456-7892', '789 Elm St');
9
10 v INSERT INTO Customers (customer_id, first_name, last_name, email, phone_number, address)
11 VALUES (4, 'Samantha', 'Jones', 'sjones@example.com', '123-456-7893', '246 Maple St');
12

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```

→ Orders

```
SQL Worksheet

1 ✓ INSERT INTO Orders (order_id, customer_id, order_date, total_cost)
2   VALUES (1, 1, TO_DATE('2022-01-01', 'YYYY-MM-DD'), 25.00);
3
4 ✓ INSERT INTO Orders (order_id, customer_id, order_date, total_cost)
5   VALUES (2, 2, TO_DATE('2022-02-01', 'YYYY-MM-DD'), 35.00);
6
7 ✓ INSERT INTO Orders (order_id, customer_id, order_date, total_cost)
8   VALUES (3, 3, TO_DATE('2022-03-01', 'YYYY-MM-DD'), 20.00);
9
10 ✓ INSERT INTO Orders (order_id, customer_id, order_date, total_cost)
11   VALUES (4, 4, TO_DATE('2022-04-01', 'YYYY-MM-DD'), 15.00);
12

1 row(s) inserted.
```

→ Menu Items

```
SQL Worksheet Clear Find Actions Save

1 ✓ INSERT INTO Menu_Items (menu_item_id, name, description, price, category)
2   VALUES (1, 'Butter Chicken', 'Tender chicken cooked in a creamy tomato-based sauce with butter and spices', 12.99, 'Entree');
3
4 ✓ INSERT INTO Menu_Items (menu_item_id, name, description, price, category)
5   VALUES (2, 'Chana Masala', 'Chickpeas cooked in a spicy tomato-based sauce with onions and cilantro', 9.99, 'Vegetarian');
6
7 ✓ INSERT INTO Menu_Items (menu_item_id, name, description, price, category)
8   VALUES (3, 'Aloo Gobi', 'Potatoes and cauliflower cooked in a blend of spices', 10.99, 'Vegetarian');
9
10 ✓ INSERT INTO Menu_Items (menu_item_id, name, description, price, category)
11   VALUES (4, 'Palak Paneer', 'Cubes of paneer cheese in a creamy spinach sauce with spices', 11.99, 'Vegetarian');
12

1 row(s) inserted.
```

→ Staff Info

```
SQL Worksheet

1 ✓ INSERT INTO Staff (staff_id, first_name, last_name, position, hourly_rate, hire_date)
2   VALUES (1, 'Samidha', 'Guru', 'Server', 12.50, TO_DATE('2022-01-15', 'yyyy-mm-dd'));
3
4 ✓ INSERT INTO Staff (staff_id, first_name, last_name, position, hourly_rate, hire_date)
5   VALUES (2, 'David', 'Smith', 'Chef', 20.00, TO_DATE('2022-02-01', 'yyyy-mm-dd'));
6
7 ✓ INSERT INTO Staff (staff_id, first_name, last_name, position, hourly_rate, hire_date)
8   VALUES (3, 'Jasmine', 'Punjabi', 'Server', 12.50, TO_DATE('2022-02-15', 'yyyy-mm-dd'));
9
10 ✓ INSERT INTO Staff (staff_id, first_name, last_name, position, hourly_rate, hire_date)
11   VALUES (4, 'Mohammed', 'Ali', 'Cook', 15.00, TO_DATE('2022-03-01', 'yyyy-mm-dd'));
12

1 row(s) inserted.
```

Querying Data :

■ Customers

SQL Worksheet

```
1 SELECT * FROM CUSTOMERS;  
2
```

CUSTOMER_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	ADDRESS
1	John	Wick	johnwick@example.com	123-456-7890	123 Main St
2	Jane	Austin	janeaustin@example.com	123-456-7891	456 Oak St
3	Bob	Builder	bobbuilder@example.com	123-456-7892	789 Elm St
4	Samantha	Jones	sjones@example.com	123-456-7893	246 Maple St
5	James	Brown	jbrown@example.com	123-456-7894	135 Oak Ln
6	Amy	Lee	alee@example.com	123-456-7895	369 Pine Ave

■ Orders

SQL Worksheet

```
1 SELECT * FROM ORDERS;
```

ORDER_ID	CUSTOMER_ID	ORDER_DATE	TOTAL_COST
1	1	01-JAN-22	25
2	2	01-FEB-22	35
3	3	01-MAR-22	20
4	4	01-APR-22	15
5	5	01-MAY-22	45
6	6	01-JUN-22	22

■ Menu Items

SQL Worksheet

```
1 SELECT * FROM MENU_ITEMS;
```

MENU_ITEM_ID	NAME	DESCRIPTION	PRICE	CATEGORY
1	Butter Chicken	Tender chicken cooked in a creamy tomato-based sauce with butter and spices	12.99	Entree
2	Chana Masala	Chickpeas cooked in a spicy tomato-based sauce with onions and cilantro	9.99	Vegetarian
3	Aloo Gobi	Potatoes and cauliflower cooked in a blend of spices	10.99	Vegetarian
4	Palak Paneer	Cubes of paneer cheese in a creamy spinach sauce with spices	11.99	Vegetarian
5	Tandoori Chicken	Chicken marinated in yogurt and spices, cooked in a clay oven	13.99	Entree

■ Staff Info

SQL Worksheet

```
1 SELECT * FROM STAFF;
```

STAFF_ID	FIRST_NAME	LAST_NAME	POSITION	HOURLY_RATE	HIRE_DATE
1	Samidha	Guru	Server	12.5	15-JAN-22
2	David	Smith	Chef	20	01-FEB-22
3	Jasmine	Punjabi	Server	12.5	15-FEB-22
4	Mohammed	Ali	Cook	15	01-MAR-22
5	Nina	Dobrev	Server	12.5	15-MAR-22

★ Tables in database

SQL Worksheet

```
1 SELECT TABLE_NAME FROM USER_TABLES;
```

TABLE_NAME
CUSTOMERS
MENU_ITEMS
ORDERS
STAFF

Altering Table :

- Adding Column

```
SQL Worksheet

1 v ALTER TABLE CUSTOMERS
2  ADD BIRTH_DATE DATE;

Table altered.
```

- Changing Datatype

```
SQL Worksheet

1 v ALTER TABLE CUSTOMERS
2  MODIFY ADDRESS VARCHAR2(100);

Table altered.
```

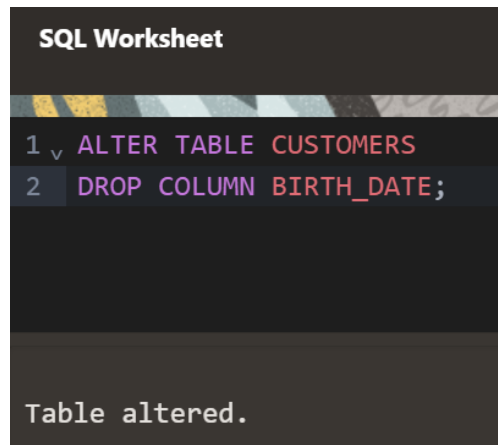
- Renaming Column

```
SQL Worksheet

1 v ALTER TABLE CUSTOMERS
2  RENAME COLUMN PHONE_NUMBER TO MOBILE_NUMBER;

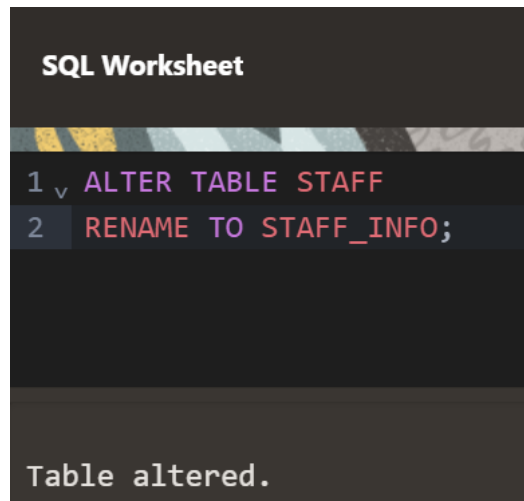
Table altered.
```

- **Deleting Column**



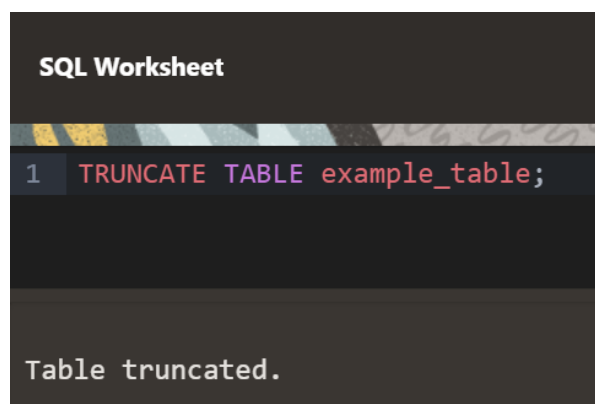
The screenshot shows an SQL Worksheet interface. At the top, it says "SQL Worksheet". Below that, there is a line of code: `1 ALTER TABLE CUSTOMERS`. The next line is: `2 DROP COLUMN BIRTH_DATE;`. At the bottom of the worksheet, it says "Table altered."

- **Renaming Table**



The screenshot shows an SQL Worksheet interface. At the top, it says "SQL Worksheet". Below that, there is a line of code: `1 ALTER TABLE STAFF`. The next line is: `2 RENAME TO STAFF_INFO;`. At the bottom of the worksheet, it says "Table altered."

- **Truncating table** (Deleting the data, but keeping the table structure)



The screenshot shows an SQL Worksheet interface. At the top, it says "SQL Worksheet". Below that, there is a line of code: `1 TRUNCATE TABLE example_table;`. At the bottom of the worksheet, it says "Table truncated."

- **Deleting Table**

```
SQL Worksheet

1 DROP TABLE example_table;

Table dropped.
```

Using Order By Clause

Ascending

SQL Worksheet

```
1 SELECT * FROM CUSTOMERS
2 ORDER BY FIRST_NAME ASC;
```

CUSTOMER_ID	FIRST_NAME	LAST_NAME	EMAIL	MOBILE_NUMBER	ADDRESS
9	Alex	Dadd	adadd@example.com	123-456-7898	789 Oak St
6	Amy	Lee	alee@example.com	123-456-7895	369 Pine Ave
3	Bob	Builder	bobbuilder@example.com	123-456-7892	789 Elm St
8	Emily	Paris	eparis@example.com	123-456-7897	457 Birch Rd
5	James	Brown	jbrown@example.com	123-456-7894	135 Oak Ln

Descending

SQL Worksheet

```
1 SELECT * FROM CUSTOMERS
2 ORDER BY FIRST_NAME DESC;
```

CUSTOMER_ID	FIRST_NAME	LAST_NAME	EMAIL	MOBILE_NUMBER	ADDRESS
4	Samantha	Jones	sjones@example.com	123-456-7893	246 Maple St
7	Michael	Davis	mdavis@example.com	123-456-7896	802 Cedar Blvd
10	Lily	Chen	lchen@example.com	123-456-7899	102 Elm St
1	John	Wick	johnwick@example.com	123-456-7890	123 Main St
2	Jane	Austin	janeaustin@example.com	123-456-7891	456 Oak St



On multiple Columns

SQL Worksheet					
1	SELECT * FROM CUSTOMERS				
2	ORDER BY CUSTOMER_ID, ADDRESS;				
CUSTOMER_ID	FIRST_NAME	LAST_NAME	EMAIL	MOBILE_NUMBER	ADDRESS
1	John	Wick	johnwick@example.com	123-456-7890	123 Main St
2	Jane	Austin	janeaustin@example.com	123-456-7891	456 Oak St
3	Bob	Builder	bobbuilder@example.com	123-456-7892	789 Elm St
4	Samantha	Jones	sjones@example.com	123-456-7893	246 Maple St
5	James	Brown	jbrown@example.com	123-456-7894	135 Oak Ln

Fetching limited rows

SQL Worksheet					
1	SELECT * FROM STAFF_INFO				
2	FETCH FIRST 5 ROWS ONLY;				
STAFF_ID	FIRST_NAME	LAST_NAME	POSITION	HOURLY_RATE	HIRE_DATE
1	Samidha	Guru	Server	12.5	15-JAN-22
2	David	Smith	Chef	20	01-FEB-22
3	Jasmine	Punjabi	Server	12.5	15-FEB-22
4	Mohammed	Ali	Cook	15	01-MAR-22
5	Nina	Dobrev	Server	12.5	15-MAR-22

Fetching Unique (Distinct) Values

SQL Worksheet

```
1 v SELECT DISTINCT (POSITION)
2 FROM STAFF_INFO;
```

POSITION
Server
Chef
Cook

Filtering Results using WHERE Clause

- Using Comparison Operator

SQL Worksheet

```
1 v SELECT * FROM STAFF_INFO
2 WHERE HOURLY_RATE = 12.5;
```

STAFF_ID	FIRST_NAME	LAST_NAME	POSITION	HOURLY_RATE	HIRE_DATE
1	Samidha	Guru	Server	12.5	15-JAN-22
3	Jasmine	Punjabi	Server	12.5	15-FEB-22
5	Nina	Dobrev	Server	12.5	15-MAR-22
7	Lila	Dcruz	Server	12.5	15-APR-22

Display STAFF with 12.5 Hourly Rate

SQL Worksheet					
1	✓	SELECT * FROM STAFF_INFO			
2		WHERE POSITION = 'Server';			
STAFF_ID	FIRST_NAME	LAST_NAME	POSITION	HOURLY_RATE	HIRE_DATE
1	Samidha	Guru	Server	12.5	15-JAN-22
3	Jasmine	Punjabi	Server	12.5	15-FEB-22
5	Nina	Dobrev	Server	12.5	15-MAR-22
7	Lila	Dcruz	Server	12.5	15-APR-22
9	Sarah	Ali	Server	12.5	15-MAY-22

Display Server Staff

SQL Worksheet			
1	✓	SELECT STAFF_ID, FIRST_NAME, LAST_NAME, HIRE_DATE	
2		FROM STAFF_INFO	
3		WHERE HIRE_DATE <= '01-MAR-22';	
STAFF_ID	FIRST_NAME	LAST_NAME	HIRE_DATE
1	Samidha	Guru	15-JAN-22
2	David	Smith	01-FEB-22
3	Jasmine	Punjabi	15-FEB-22
4	Mohammed	Ali	01-MAR-22

Display Staff hired before 1st March 2022

- On multiple columns

SQL Worksheet

```
1 v SELECT *
2 FROM CUSTOMERS
3 WHERE FIRST_NAME = 'James' AND LAST_NAME = 'Brown';
```

CUSTOMER_ID	FIRST_NAME	LAST_NAME	EMAIL	MOBILE_NUMBER	ADDRESS
5	James	Brown	jbrown@example.com	123-456-7894	135 Oak Ln

SQL Worksheet

```
1 v SELECT *
2 FROM STAFF_INFO
3 WHERE POSITION = 'Cook' OR HOURLY_RATE = 20;
```

STAFF_ID	FIRST_NAME	LAST_NAME	POSITION	HOURLY_RATE	HIRE_DATE
2	David	Smith	Chef	20	01-FEB-22
4	Mohammed	Ali	Cook	15	01-MAR-22
6	James	Bond	Chef	20	01-APR-22
8	Amir	Khan	Cook	15	01-MAY-22
10	Kevin	Masifar	Chef	20	01-JUN-22

Display Cooks or Staff with 20 Hourly Rate

Alias (Temporary Name)

SQL Worksheet	
1	SELECT FIRST_NAME AS NAME, MOBILE_NUMBER AS PHONE
2	FROM CUSTOMERS;
NAME	PHONE
John	123-456-7890
Jane	123-456-7891
Bob	123-456-7892
Samantha	123-456-7893
James	123-456-7894

Between Operator

SQL Worksheet			
1	SELECT *		
2	FROM ORDERS		
3	WHERE TOTAL_COST BETWEEN 25 AND 45;		
ORDER_ID	CUSTOMER_ID	ORDER_DATE	TOTAL_COST
1	1	01-JAN-22	25
2	2	01-FEB-22	35
5	5	01-MAY-22	45
9	9	01-SEP-22	28

Orders with total cost between 25 and 45

In Operator

SQL Worksheet				
<div>ClearFindActionsSave</div> <pre>1 SELECT * 2 FROM MENU_ITEMS 3 WHERE MENU_ITEM_ID IN (1,2,3);</pre>				
MENU_ITEM_ID	NAME	DESCRIPTION	PRICE	CATEGORY
1	Butter Chicken	Tender chicken cooked in a creamy tomato-based sauce with butter and spices	12.99	Entree
2	Chana Masala	Chickpeas cooked in a spicy tomato-based sauce with onions and cilantro	9.99	Vegetarian
3	Aloo Gobi	Potatoes and cauliflower cooked in a blend of spices	10.99	Vegetarian

Show Menu items with id 1, 2 or 3

DML Examples

- INSERT

SQL Worksheet				
<div>ClearFindActions</div> <pre>1 INSERT INTO MENU_ITEMS (MENU_ITEM_ID,NAME,DESCRIPTION,PRICE,CATEGORY) 2 VALUES (11,'Prawns Biryani','Aromatic basmati rice dum cooked with prawns, herbs & spice powders',15.99,'Seafood');</pre>				
1 row(s) inserted.				

- UPDATE

SQL Worksheet				
<pre>1 UPDATE STAFF_INFO 2 SET FIRST_NAME = 'Chimmu', LAST_NAME = 'Singh' 3 WHERE STAFF_ID = 1;</pre>				
1 row(s) updated.				

- **DELETE**

```
SQL Worksheet

1 v DELETE FROM MENU_ITEMS
2 WHERE MENU_ITEM_ID = 11;

1 row(s) deleted.
```

Aggregate Functions

- **COUNT**

```
SQL Worksheet

1 v SELECT COUNT(FIRST_NAME) AS TOTAL_COUNT
2 FROM CUSTOMERS;

TOTAL_COUNT
10
```

Count of total customers

- **MAX**

```
SQL Worksheet

1 v SELECT MAX(HOURLY_RATE) AS HIGHEST_RATE
2 FROM STAFF_INFO;
```

HIGHEST_RATE
20

Highest Rate of Staff

- **MIN**

```
SQL Worksheet

1 SELECT MIN(PRICE) AS LOWEST_PRICE
2 FROM MENU_ITEMS;
```

LOWEST_PRICE
2.99

Cheapest Menu item

- **AVG**

```
SQL Worksheet
```

```
1  SELECT AVG(HOURLY_RATE) AS AVERAGE
2  FROM STAFF_INFO;
```

AVERAGE
15.25

- **SUM**

```
SQL Worksheet

1 v SELECT SUM(PRICE) AS TOTAL_PRICE
2   FROM MENU_ITEMS;
```

TOTAL_PRICE
90.9

Total price of all items

GROUP BY

SQL Worksheet

```
1 ✓ SELECT COUNT(*) AS COUNT, POSITION
2   FROM STAFF_INFO
3  GROUP BY POSITION;
```

COUNT	POSITION
5	Server
3	Chef
2	Cook

Count of staff per position

GROUP BY with HAVING

SQL Worksheet	
<pre>1 ✓ SELECT MAX(TOTAL_COST) AS MAX_COST_DAY, ORDER_DATE 2 FROM ORDERS 3 GROUP BY ORDER_DATE 4 HAVING MAX(TOTAL_COST) > 20;</pre>	
MAX_COST_DAY	ORDER_DATE
22	01-JUN-22
33	01-OCT-22
25	01-JAN-22
45	01-MAY-22
35	01-FEB-22

Most expensive order per day, considering cost of order should be more than 20

LIKE Operator

SQL Worksheet					
<pre>1 ✓ SELECT * 2 FROM CUSTOMERS 3 WHERE FIRST_NAME LIKE 'J%';</pre>					
CUSTOMER_ID	FIRST_NAME	LAST_NAME	EMAIL	MOBILE_NUMBER	ADDRESS
1	John	Wick	johnwick@example.com	123-456-7890	123 Main St
2	Jane	Austin	janeaustin@example.com	123-456-7891	456 Oak St
5	James	Brown	jbrown@example.com	123-456-7894	135 Oak Ln

Customers whose name start with "J"

UNION

SQL Worksheet	
1	SELECT FIRST_NAME AS ALL_NAMES FROM CUSTOMERS
2	UNION
3	SELECT FIRST_NAME AS ALL_NAMES FROM STAFF_INFO;
4	
ALL_NAMES	
Alex	
Amir	
Amy	
Bob	
David	

Display ALL names in Customers and Staff

JOINS

- INNER JOIN

SQL Worksheet

```
1 SELECT FIRST_NAME || ' ' || LAST_NAME AS FULL_NAME, ORDER_DATE, TOTAL_COST
2 FROM CUSTOMERS C
3 INNER JOIN ORDERS O
4 ON C.CUSTOMER_ID = O.ORDER_ID;
```

FULL_NAME	ORDER_DATE	TOTAL_COST
John Wick	01-JAN-22	25
Jane Austin	01-FEB-22	35
Bob Builder	01-MAR-22	20
Samantha Jones	01-APR-22	15

Show Customers, their order date and order cost

- LEFT JOIN

SQL Worksheet

```
1 SELECT C.FIRST_NAME, C.LAST_NAME, O.TOTAL_COST
2 FROM CUSTOMERS C LEFT JOIN ORDERS O ON O.CUSTOMER_ID = C.CUSTOMER_ID;
```

FIRST_NAME	LAST_NAME	TOTAL_COST
John	Wick	25
Jane	Austin	35
Bob	Builder	20
Samantha	Jones	15

Show All Customers and their order cost

SUBQUERY

SQL Worksheet

```
1 SELECT * FROM MENU_ITEMS WHERE PRICE > (SELECT AVG(PRICE) FROM MENU_ITEMS);
```

MENU_ITEM_ID	NAME	DESCRIPTION	PRICE	CATEGORY
1	Butter Chicken	Tender chicken cooked in a creamy tomato-based sauce with butter and spices	12.99	Entree
2	Chana Masala	Chickpeas cooked in a spicy tomato-based sauce with onions and cilantro	9.99	Vegetarian
3	Aloo Gobi	Potatoes and cauliflower cooked in a blend of spices	10.99	Vegetarian
4	Palak Paneer	Cubes of paneer cheese in a creamy spinach sauce with spices	11.99	Vegetarian
5	Tandoori Chicken	Chicken marinated in yogurt and spices, cooked in a clay oven	13.99	Entree
6	Chicken Tikka Masala	Tender pieces of chicken in a spicy tomato-based sauce with cream and spices	12.99	Entree

Menu Items that are costlier than the average

SQL Worksheet

```
1 SELECT * FROM MENU_ITEMS WHERE PRICE = (SELECT MAX(PRICE) FROM MENU_ITEMS WHERE PRICE < (SELECT MAX(PRICE) FROM MENU_ITEMS));
```

MENU_ITEM_ID	NAME	DESCRIPTION	PRICE	CATEGORY
1	Butter Chicken	Tender chicken cooked in a creamy tomato-based sauce with butter and spices	12.99	Entree
6	Chicken Tikka Masala	Tender pieces of chicken in a spicy tomato-based sauce with cream and spices	12.99	Entree

2nd most expensive item(s) on the menu

VIEWS

➤ Creating a VIEW

```
SQL Worksheet

1 v CREATE VIEW STAFF_INFO_VIEW
2 AS SELECT STAFF_ID, FIRST_NAME, LAST_NAME, POSITION
3 FROM STAFF_INFO;

View created.
```

➤ Displaying the VIEW

```
SQL Worksheet

1 SELECT * FROM STAFF_INFO_VIEW;
```

STAFF_ID	FIRST_NAME	LAST_NAME	POSITION
1	Samidha	Guru	Server
2	David	Smith	Chef
3	Jasmine	Punjabi	Server
4	Mohammed	Ali	Cook
5	Nina	Dobrev	Server

Project By : Priyanka Singh