

4
CREATE DATABASE restaurante;
USE restaurante;

```
CREATE TABLE Cliente (  
  id_cliente INT AUTO_INCREMENT PRIMARY KEY,  
  nombre VARCHAR(100),  
  telefono VARCHAR(20),  
  correo VARCHAR(100)  
);
```

```
CREATE TABLE Empleado (  
  id-empleado INT AUTO_INCREMENT PRIMARY KEY,  
  nombre VARCHAR(100),  
  puesto VARCHAR(50),  
  salario DECIMAL(10,2)  
);
```

```
CREATE TABLE MESA (  
  id-mesa INT AUTO_INCREMENT PRIMARY KEY,  
  numero INT,  
  capacidad INT,  
  ubicacion VARCHAR(50)  
);
```

```
CREATE TABLE Reserva (  
  id-reserva INT AUTO_INCREMENT PRIMARY KEY,  
  fecha DATE,  
  hora TIME,  
  id_cliente INT,  
  id_mesa INT,  
  FOREIGN KEY (id_cliente) REFERENCES Cliente (id_cliente),  
  FOREIGN KEY (id_mesa) REFERENCES MESA (id_mesa)  
);
```

```
CREATE TABLE Plato (  
  id-plato INT AUTO_INCREMENT PRIMARY KEY,  
  nombre VARCHAR(100),  
  precio DECIMAL(10,2),  
  descripcion TEXT  
);
```

```

CREATE TABLE Pedido (
  id_pedido INT AUTO_INCREMENT PRIMARY KEY,
  fecha DATE,
  id_cliente INT,
  id_empleado INT,
  FOREIGN KEY (id_cliente) REFERENCES cliente (id_cliente),
  FOREIGN KEY (id_empleado) REFERENCES Empleado
  (id_empleado);

```

```

CREATE TABLE Pedidos_Plato (
  id_pedido INT,
  id_plato INT,
  cantidad INT,
  PRIMARY KEY (id_pedido, id_plato),
  FOREIGN KEY (id_cliente) REFERENCES cliente (id_cliente),
  FOREIGN KEY (id_plato) REFERENCES Plato (id_plato)
);

```

```

INSERT INTO cliente (nombre, telefono, correo) VALUES
('Juan Perez', '3123456789', 'juan@gmail.com'),
('Ana Rivera', '3144214909', 'ana@gmail.com'),
('Camilo Penagos', '3053358881', 'penagos@gmail.com');

```

```

INSERT INTO Empleado (nombre, puesto, salario) VALUES
('Carlos Ramirez', 'Mesero', 1200000),
('Marta Ruiz', 'Cocinera', 1500000),
('Pedro Lopez', 'Administrador', 2000000);

```

```

INSERT INTO Mesa (numero, capacidad, ubicacion) VALUES
(1, 4, 'Interior'),
(2, 2, 'Terraza'),
(3, 6, 'VIP');

```

```

INSERT INTO reserva (fecha, hora, id_cliente, id_mesa) VALUES
('2025-06-22', '19:00:00', 1, 1),
('2025-06-23', '20:00:00', 2, 2),
('2025-06-24', '21:00:00', 3, 3);

```

```

INSERT INTO Plato (nombre, precio, descripcion) VALUES
('Pasta Carbonara', 25000, 'Pasta con salsa'),
('Pizza Margarita', 30000, 'Pizza con tomate, etc'),
('Ensalada Cesar', 18000, 'Lechuga, pollo etc');

```



```
INSERT INTO Pedido (fecha, id_cliente, id_empleado)
VALUES
('2025-06-22', 1, 1),
('2025-06-23', 2, 2),
('2025-06-24', 3, 3);
```

```
INSERT INTO Pedido_Plato (id_pedido, id_plato, cantidad)
VALUES
(1, 1, 2),
(2, 2, 1),
(3, 3, 3);
```

```
UPDATE cliente SET telefono = '3100000000'
WHERE id_cliente = 1;
```

```
UPDATE Empleado SET salario = salario + 100000
WHERE id_empleado = 2;
```

```
UPDATE Mesa SET capacidad = 5 WHERE id_mesa = 1;
```

```
UPDATE Plato SET precio = 24000 WHERE id_plato = 1;
```

```
UPDATE reserva SET hora = '19:30:00' WHERE id_reserva = 1;
```

```
DELETE FROM Pedido_Plato WHERE id_pedido = 3
AND id_plato = 3;
```

```
DELETE FROM Pedido WHERE id_pedido = 3;
```

```
DELETE FROM reserva WHERE id_reserva = 3;
```

```
DELETE FROM Plato WHERE id_plato = 3;
```

```
DELETE FROM Mesa WHERE id_mesa = 3;
```

```
SELECT c.nombre, p.fecha
FROM cliente c
JOIN Pedido p ON c.id_cliente = p.id_cliente;
```

```
SELECT e.nombre AS empleado, p.id_pedido
FROM Empleado e
JOIN Pedido p ON e.id_empleado = p.id_empleado;
```

```
SELECT r.fecha, m.numero
FROM reserva r
JOIN Mesa m ON r.id_mesa = m.id_mesa;
```

```

SELECT pl.nombre, pp.cantidad
FROM Plato p
JOIN Pedido_Plato pp ON p.id-plato = pp.id-plato;

```

```

SELECT m.numero, COUNT(r.id-reserva) AS reservas
FROM Mesa m
LEFT JOIN mesa_reserva r ON m.id-mesa = r.id-mesa
GROUP BY m.numero;

```

```

SELECT nombre FROM cliente
WHERE id_cliente = (SELECT MAX(id_cliente)
FROM cliente);

```

```

SELECT precio FROM plato
WHERE id_plato = (SELECT id_plato FROM pedido_plato
WHERE id_pedido = 1);

```

```

SELECT numero FROM mesa
WHERE id-mesa = (SELECT id-mesa
FROM mesa_reserva
GROUP BY id-mesa
ORDER BY COUNT(*) DESC LIMIT 1);

```

```

SELECT nombre FROM empleado
WHERE id_empleado = (SELECT MAX(id_empleado)
FROM empleado);

```

```

SELECT nombre FROM plato
WHERE id_plato IN (SELECT id_plato FROM pedido_plato
WHERE cantidad > 1);

```

```

DELIMITER //

```

```

CREATE FUNCTION fn_total_clientes () RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE t INT; SELECT COUNT(*) INTO t FROM cliente;
    RETURN t;
END //

```

```

CREATE FUNCTION fn_total_pedidos () RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE t INT; SELECT COUNT(*) INTO t FROM Pedido;
    RETURN t;
END //

```



```

CREATE FUNCTION Fn_total_platos () RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE t INT; SELECT COUNT(*) INTO t FROM platos;
    RETURN t;
END //

```

```

CREATE FUNCTION Fn_total_reservas () RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE t INT; SELECT COUNT(*) INTO t FROM Reservas;
    RETURN t;
END //

```

```

CREATE FUNCTION Fn_total_mesa () RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE t INT; SELECT COUNT(*) INTO t FROM mesa;
    RETURN t;
END //

```

```

CREATE FUNCTION Fn_nombre_plato (pid INT) RETURNS
VARCHAR(100) DETERMINISTIC
BEGIN
    DECLARE n VARCHAR(100); SELECT nombre INTO n
    FROM platos WHERE id_plato = pid;
    RETURN n;
END //

```

```

CREATE FUNCTION Fn_precio_plato (pid INT) RETURNS
DECIMAL(10,2) DETERMINISTIC
BEGIN
    DECLARE p DECIMAL(10,2); SELECT precio INTO p
    FROM platos WHERE id_plato = pid;
    RETURN p;
END //

```

```

CREATE FUNCTION Fn_salario_empleado (pid INT) RETURNS
DECIMAL(10,2) DETERMINISTIC
BEGIN
    DECLARE s DECIMAL(10,2); SELECT salario INTO s
    FROM empleado WHERE id_empleado = pid;
    RETURN s;
END //

```

```

CREATE FUNCTION fn_capacidad_mesa (pid INT) RETURNS
INT DETERMINISTIC
BEGIN
    DECLARE c INT; SELECT capacidad INTO c FROM mesa
    WHERE id_mesa = pid; RETURN c;
END //

```

```

CREATE FUNCTION fn_pedido_cliente (pid INT) RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE cid INT; SELECT id_cliente INTO cid
    FROM Pedido WHERE id_pedido = pid;
    RETURN cid;
END //

```

DELIMITER;

DELIMITER //

```

CREATE PROCEDURE sp_insertar_plato(
    IN pnombre VARCHAR(100),
    IN pprecio DECIMAL(10,2),
    IN pdescripcion TEXT
)

```

```

BEGIN
    INSERT INTO Plato (nombre, precio, descripcion) VALUES
    (pnombre, pprecio, pdescripcion);
END //

```

DELIMITER;

```

ALTER TABLE Mesa ADD COLUMN decoracion VARCHAR(50);
ALTER TABLE Mesa DROP COLUMN decoracion;

```

```

DROP TABLE pedido_plato;
DROP TABLE Pedido;
DROP TABLE Reserva;
DROP TABLE Plato;
DROP TABLE Mesa;
DROP TABLE Empleado;
DROP TABLE Cliente;

```

DROP DATABASE restaurante;

2025/07/07 04:01

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