```sql
CREATE DATABASE gasolinera;
USE gasolinera;

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

CREATE Empleado (
    id_empleado INT AUTO_INCREMENT PRIMARY KEY,
    nombre VARCHAR(100),
    cargo VARCHAR(50),
    telefono VARCHAR(20)
);

CREATE TABLE Combustible (
    id_combustible INT AUTO_INCREMENT PRIMARY KEY,
    tipo VARCHAR(50),
    precio DECIMAL(10,2),
    cantidad INT
);

CREATE TABLE Turno (
    id_turno INT AUTO_INCREMENT PRIMARY KEY,
    dia VARCHAR(20),
    hora_inicio TIME,
    hora_fin TIME,
);

CREATE TABLE Venta (
    id_venta INT AUTO_INCREMENT PRIMARY KEY,
    fecha DATE,
    total DECIMAL(10,2),
    id_combustible INT,
    FOREIGN KEY (id_combustible) REFERENCES
    Combustible (id_combustible)
);

CREATE TABLE Venta_Cliente (
    id_cliente INT,
    id_venta INT,
    PRIMARY KEY (id_cliente, id_venta),
    FOREIGN KEY (id_cliente) REFERENCES Cliente (id_cliente),
    FOREIGN KEY (id_venta) REFERENCES Venta (id_venta)
);
```

```sql
CREATE Empleado_Turno (
  id_empleado INT,
  id_turno INT,
  PRIMARY KEY (id_empleado, id_turno),
  FOREIGN KEY (id_empleado) REFERENCES Empleado
  (id_empleado),
  FOREIGN KEY (id_turno) REFERENCES Turno (id_turno)
);

INSERT INTO Cliente (nombre, cedula, telefono) VALUES
('Laura Gomez', '12345618', '3101234561'),
('Jhoan Penagos', '87654321', '3111654321'),
('Ana Torres', '11223344', '3129488176');

INSERT INTO Empleado (nombre, cargo, telefono) VALUES
('Luis Rojas', 'Cajero', '3101112233'),
('Carla Mendoza', 'Supervisor', '3112223344'),
('Javier Mora', 'Atendedor', '3123334455');

INSERT INTO Combustible (tipo, precio, cantidad) VALUES
('Gasolina Corriente', 9500.00, 10000),
('Gasolina Extra', 11000.00, 5000),
('Diesel', 8700.00, 7000);

INSERT INTO Turno (dia, hora_inicio, hora_fin) VALUES
('Lunes', '06:00:00', '14:00:00'),
('Martes', '14:00:00', '22:00:00'),
('Miercoles', '22:00:00', '06:00:00');

INSERT INTO Venta (fecha, total, id_combustible) VALUES
('2025-06-01', 50000.00, 1),
('2025-06-02', 30000.00, 2),
('2025-06-03', 20000.00, 3);

INSERT INTO Venta_Cliente (id_cliente, id_venta) VALUES
(1,1),
(2,2),
(3,3);

INSERT INTO Empleado_Turno (id_empleado, id_turno) VALUES
(1,1),
(2,2),
(3,3);
```

```sql
UPDATE Combustible SET precio = 9800.00
WHERE id_combustible = 1;

UPDATE Cliente SET telefono = '31333344444'
WHERE id_cliente = 2;

UPDATE Empleado SET cargo = 'Gerente'
WHERE id_empleado = 2;

UPDATE Turno SET dia = 'Jueves' WHERE id_turno = 2;

UPDATE Venta SET total = 55000.00 WHERE id_venta = 1;

DELETE FROM venta_Cliente
WHERE id_cliente = 3 AND id_venta = 3;

DELETE FROM Empleado_Turno WHERE id_empleado = 3
AND id_turno = 3;

DELETE FROM Venta WHERE id_venta = 3;

DELETE FROM Empleado WHERE id_empleado = 3;

DELETE FROM Cliente WHERE id_cliente = 3;

SELECT cl.nombre AS Cliente, v.fecha, v.total
FROM Cliente cl
INNER JOIN venta_cliente vc ON cl.id_cliente = vc.id_Cliente
INNER JOIN Venta v ON vc.id_venta = v.id_venta;

SELECT e.nombre AS empleado, t.dia, t.hora_inicio
FROM Empleado e
LEFT JOIN Empleado_Turno et ON e.id_empleado =
et.id_empleado
LEFT JOIN Turno t ON et.id_turno = t.id_turno;

SELECT t.dia AS turno, e.nombre AS empleado
FROM Empleado_Turno et
RIGHT JOIN Turno t ON et.id_turno = t.id_turno
RIGHT JOIN Empleado e ON et.id_empleado = e.id_empleado;

SELECT cl.nombre AS Cliente, v.fecha, v.total
FROM Cliente cl
LEFT JOIN venta_cliente vc ON cl.id_cliente = vc.id_cliente
LEFT JOIN Venta v ON vc.id_venta = v.id_venta
```

```sql
SELECT cl.nombre AS cliente, v.fecha, v.total
FROM Venta v
LEFT JOIN Venta_Cliente vc ON v.id_venta = vc.id_venta
LEFT JOIN Cliente cl ON vc.id_cliente = cl.id_cliente;

SELECT v.fecha, c.tipo, v.total
FROM Venta v
INNER JOIN Combustible c ON v.id_combustible = c.id_combustible
WHERE c.tipo = 'Gasolina Corriente';

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

SELECT tipo FROM Combustible
WHERE id_combustible = (SELECT id_combustible
FROM Venta WHERE id_venta = 1);

SELECT nombre FROM Empleado
WHERE id_empleado IN (SELECT id_empleado
                      FROM Empleado_Turno
                      WHERE id_turno = 2);

SELECT precio FROM Combustible
WHERE id_combustible = (SELECT MIN(id_combustible)
                        FROM Combustible);

SELECT total FROM Venta
WHERE id_combustible = (SELECT id_combustible
                        FROM Combustible
                        WHERE tipo = 'Diesel');

DELIMITER //

CREATE FUNCTION fn_total_clientes () RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE total INT;
    SELECT COUNT(*) INTO total FROM Cliente;
    RETURN total;
END //
```

```sql
CREATE FUNCTION fn_total_empleados () RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE total INT;
    SELECT COUNT (*) INTO total FROM empleado;
    RETURN total;
END //

CREATE FUNCTION fn_total_combustible () RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE total INT;
    SELECT COUNT (*) INTO total FROM combustible;
    RETURN total;
END //

CREATE FUNCTION fn_nombre_cliente (pid INT) RETURNS
VARCHAR (100) DETERMINISTIC
BEGIN
    DECLARE nombre VARCHAR (100);
    SELECT nombre INTO nombre FROM cliente
    WHERE id_cliente = pid;
    RETURN nombre;
END //

CREATE FUNCTION fn_nombre_empleado (pid INT) RETURNS
VARCHAR (100) DETERMINISTIC
BEGIN
    DECLARE nombre VARCHAR (100);
    SELECT nombre INTO nombre FROM empleado
    WHERE id_empleado = pid;
    RETURN nombre;
END //

CREATE FUNCTION fn_precio_combustible (pid INT) RETURNS
DECIMAL (10,2) DETERMINISTIC
BEGIN
    DECLARE p DECIMAL (10,2);
    SELECT precio INTO p FROM combustible
    WHERE id_combustible = pid;
    RETURN p;
END //
```

```sql
CREATE FUNCTION fn_turno_dia (pid INT) RETURN
VARCHAR(20) DETERMINISTIC
BEGIN
    DECLARE d VARCHAR(20);
    SELECT dia INTO d FROM turno WHERE id_turno = pid;
    RETURN d;
END //

CREATE FUNCTION fn_total_venta () RETURN INT
DETERMINISTIC
BEGIN
    DECLARE total INT;
    SELECT COUNT(*) INTO total FROM venta;
    RETURN total;
END //

CREATE FUNCTION fn_total_turnos () RETURNS INT
DETERMINISTIC
BEGIN
    DECLARE total INT;
    SELECT COUNT(*) INTO total FROM turno;
    RETURN total;
END //

CREATE FUNCTION fn_cargo_empleado (pid INT) RETURNS
VARCHAR(50) DETERMINISTIC
BEGIN
    DECLARE c VARCHAR(50);
    SELECT cargo INTO c FROM empleado
    WHERE id_empleado = pid;
    RETURN c;
END //

CREATE PROCEDURE sp_insertar_cliente (
    IN pnombre VARCHAR(100),
    IN pcedula VARCHAR(20),
    IN ptelefono VARCHAR(20)
)

BEGIN
    INSERT INTO cliente (nombre, cedula, telefono)
    VALUES (pnombre, pcedula, ptelefono);
END //

DELIMITER ;
```

```sql
ALTER TABLE Cliente ADD COLUMN correo
VARCHAR(100);

ALTER TABLE Cliente DROP COLUMN correo;

DROP TABLE Empleado_Turno;
DROP TABLE Venta_cliente;
DROP TABLE Venta;
DROP TABLE Turno;
DROP TABLE Combustible;
DROP TABLE Empleado;
DROP TABLE Cliente;

DROP DATABASE gasolinera;
```