World Database:

EASY:

1. SELECT name from country WHERE continent = "South America";
2. SELECT Population from country WHERE Name = "Germany";
3. SELECT Name from city WHERE CountryCode = "JPN";

Medium:

4. SELECT Name from country WHERE Continent = "Africa" ORDER by Population DESC limit 3;
5. SELECT Name, LifeExpectancy FROM country WHERE Population > 1000000 AND Population < 5000000;
6. SELECT CountryCode FROM countrylanguage WHERE Language = "French" and IsOfficial = "T";

Chinook Database:

EASY:

7. SELECT Album.Title FROM Album JOIN Artist ON Album.ArtistId = Artist.ArtistId WHERE Artist.Name = 'AC/DC';
8. SELECT Customer.FirstName, Customer.LastName, Customer.Email FROM Customer WHERE Customer.Country = 'Brazil';
9. SELECT * FROM `Playlist` WHERE 1;

MEDIUM:

10. SELECT COUNT(*) FROM Track JOIN Genre ON Track.GenreId = Genre.GenreId WHERE Genre.Name = 'Rock';
11. SELECT Employee.FirstName, Employee.LastName FROM Employee JOIN Employee AS Manager ON Employee.ReportsTo = Manager.EmployeeId WHERE Manager.FirstName = 'Nancy' AND Manager.LastName = 'Edwards';
12. SELECT Customer.CustomerId, Customer.FirstName, Customer.LastName, SUM(Invoice.Total) AS TotalSales FROM Customer JOIN Invoice ON Customer.CustomerId = Invoice.CustomerId GROUP BY Customer.CustomerId;

Create Database:

Table Creation:

CREATE TABLE Customers (CustomerID INTEGER PRIMARY KEY, FirstName TEXT NOT NULL, LastName TEXT NOT NULL, Phone TEXT, Email TEXT);

CREATE TABLE MenuItems (MenuItemID INTEGER PRIMARY KEY, Name TEXT NOT NULL, Price REAL);

CREATE TABLE Orders (OrderID INTEGER PRIMARY KEY, CustomerID INTEGER, MenuItemID INTEGER, Quantity INTEGER NOT NULL, OrderDate TEXT NOT NULL, FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID), FOREIGN KEY (MenuItemID) REFERENCES MenuItems(MenuItemID));

Data Insertion:

INSERT INTO Customers (CustomerID, FirstName, LastName, Phone, Email)

VALUES

(1, 'John', 'Doe', '100', 'john.doe.com'),

(2, 'Moris', 'Eskinazi', '101', 'moris.eskinazi.com'),

(3, 'Carlitos', 'Lopez-Guerra', '102', 'carlitos.Lopez-Guerra.com'),

(4, 'Ana', 'Romagosa', '103', 'ana.romagosa.com'),

(5, 'Diego', 'Pretelt', '104', 'diego.pretelt.com');

INSERT INTO MenuItems (MenuItemID, Name, Price)

VALUES

(1, 'Fried Chicken', 5.99),

(2, 'Rotisserie Chicken', 8.99),

(3, 'Chicken Fingers', 5.99),

(4, 'Chicken Bowl', 11.99),

(5, 'Boneless-Buffalo Wings', 10.99);

INSERT INTO Orders (OrderID, CustomerID, MenuItemID, Quantity, OrderDate)

VALUES

(1, 1, 1, 2, '2024-09-01'),

(2, 2, 3, 1, '2024-09-02'),

(3, 3, 4, 3, '2024-09-03'),

(4, 4, 2, 1, '2024-09-04'),

(5, 5, 5, 4, '2024-09-05');

Queries:

SELECT Name from MenuItems;

SELECT SUM(Quantity) AS TotalQuantity FROM Orders;

SELECT Email FROM Customers;