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**1)**

create database sample;

use sample;

-- Create the Customer table

CREATE TABLE Customer (

customer\_id INT PRIMARY KEY,

first\_name VARCHAR(20),

last\_name VARCHAR(30)

);

-- Insert sample data into the Customer table

INSERT INTO Customer (customer\_id, first\_name, last\_name)

VALUES

(1, 'John', 'Cartson'),

(2, 'Jane', 'Smith'),

(3, 'Michael', 'Jacksn'),

(4, 'Amelia', 'Williams'),

(5, 'Adya', 'Sharma');

-- Create the Orders table

CREATE TABLE Orders (

order\_id INT PRIMARY KEY,

order\_date DATE,

total\_amount INT,

customer\_id INT,

FOREIGN KEY (customer\_id) REFERENCES Customer(customer\_id)

);

-- Insert sample data into the Orders table

INSERT INTO Orders (order\_id, order\_date, total\_amount, customer\_id)

VALUES

(101, '2024-10-01', 150, 1),

(102, '2024-10-03', 250, 1),

(103, '2024-10-05', 120, 2),

(104, '2024-10-07', 300, 3),

(105, '2024-10-09', 180, 4),

(106, '2024-10-11', 220, 5),

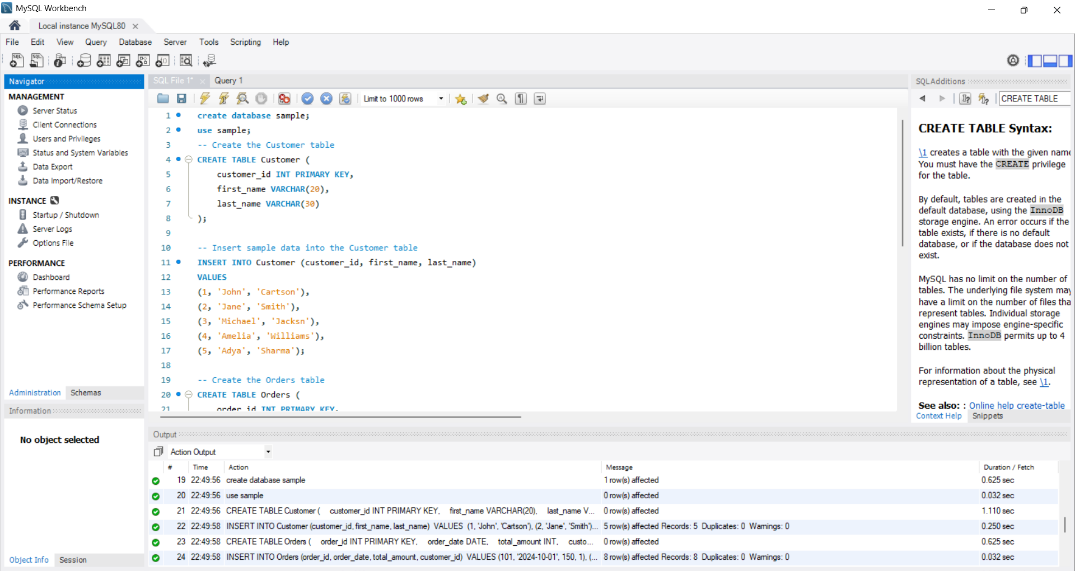
(107, '2024-10-12', 110, 2),

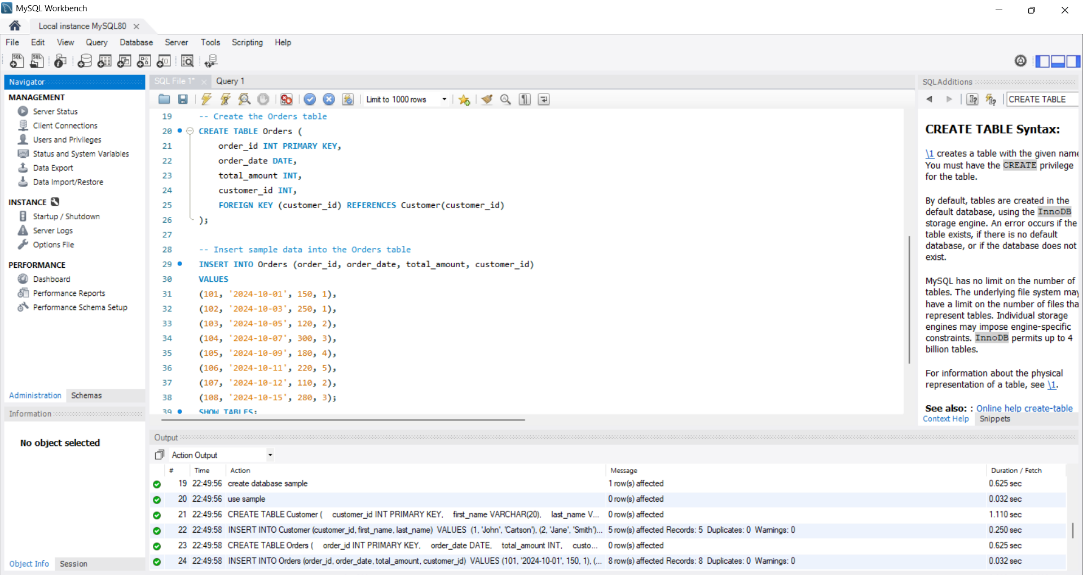
(108, '2024-10-15', 280, 3);

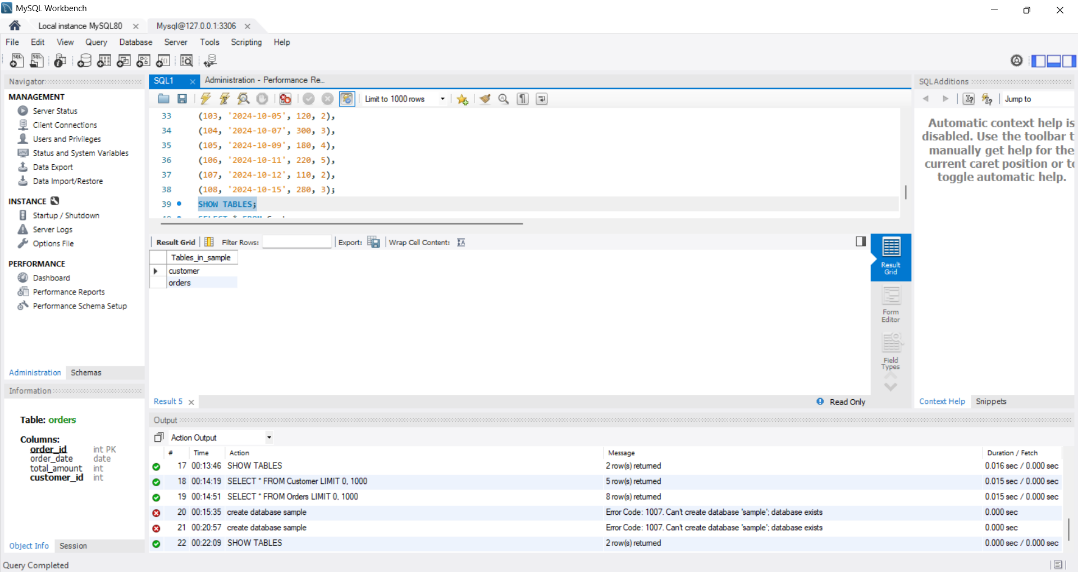
SHOW TABLES;

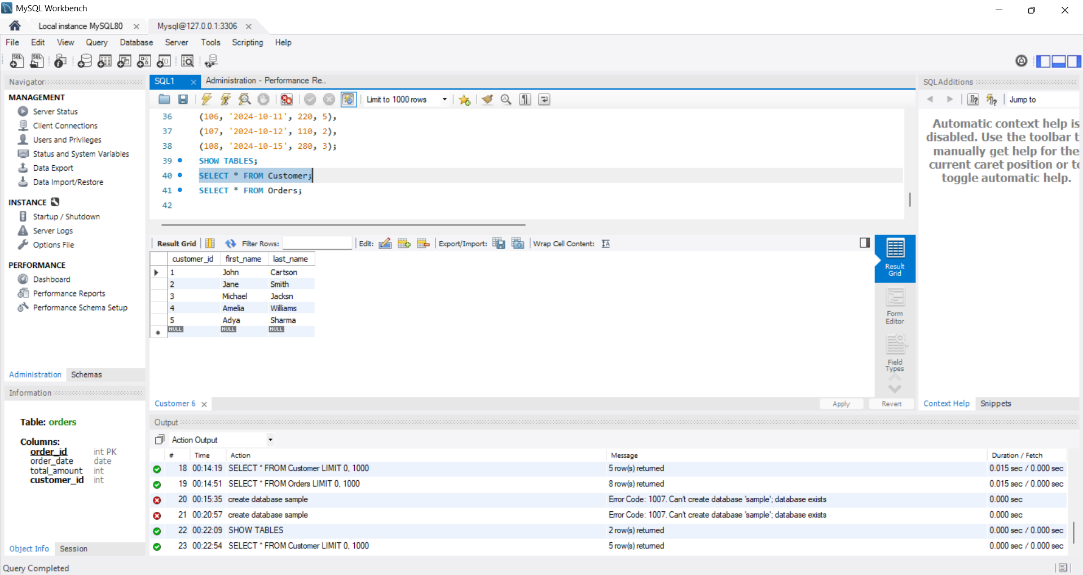
SELECT \* FROM Customer;

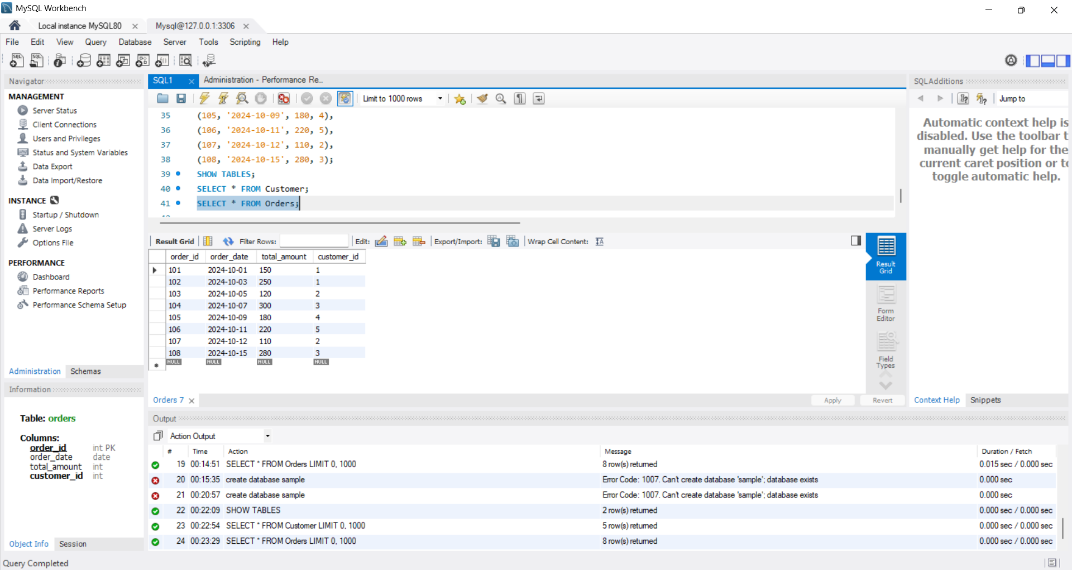
SELECT \* FROM Orders;











**2)**

CREATE DATABASE TestDB;

USE TestDB;

-- Create Department table

CREATE TABLE Department (

department\_id INT PRIMARY KEY,

department\_name VARCHAR(30)

);

-- Insert data into Department table

INSERT INTO Department (department\_id, department\_name) VALUES (1, 'HR');

INSERT INTO Department (department\_id, department\_name) VALUES (2, 'Finance');

INSERT INTO Department (department\_id, department\_name) VALUES (3, 'IT');

INSERT INTO Department (department\_id, department\_name) VALUES (4, 'Marketing');

-- Create Employees table

CREATE TABLE Employees (

employee\_id INT PRIMARY KEY,

first\_name VARCHAR(30),

last\_name VARCHAR(30),

department\_id INT,

FOREIGN KEY (department\_id) REFERENCES Department(department\_id)

);

-- Insert data into Employees table

INSERT INTO Employees (employee\_id, first\_name, last\_name, department\_id) VALUES (1, 'Eshan', 'Raichand', 1);

INSERT INTO Employees (employee\_id, first\_name, last\_name, department\_id) VALUES (2, 'Brinti', 'Kumari', 2);

INSERT INTO Employees (employee\_id, first\_name, last\_name, department\_id) VALUES (3, 'Sherley', 'D.Rozario', 3);

-- Adding an employee without a department for testing LEFT JOIN

INSERT INTO Employees (employee\_id, first\_name, last\_name, department\_id) VALUES (4, 'Alizeh', 'Zubair', NULL); -- Alizeh has not been assigned any department

-- Left Join Query

SELECT Department.department\_name, Employees.first\_name, Employees.last\_name

FROM Department

LEFT JOIN Employees ON Department.department\_id = Employees.department\_id;

SHOW TABLES;

SELECT \* FROM Department;

SELECT \* FROM Employees;

