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Lab Questions

**[FEEDBACK](https://deepsphereai.litmos.com/course/14948206/module/21029926?LPId=0" \l "myModal)**

**[PREVIOUS](https://deepsphereai.litmos.com/course/14948206/module/21029926/previous?LPId=0)**

**[NEXT MODULE](https://deepsphereai.litmos.com/course/14948206/module/21029926/next?LPId=0)**

**[EXIT](https://deepsphereai.litmos.com/course/14948206/module/21029926/exit?LPId=0)**

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create database mysql\_reassessment;

use mysql\_reassessment;

-- Create queries

CREATE TABLE Accounts (

account\_id INT PRIMARY KEY,

account\_holder VARCHAR(255),

account\_type VARCHAR(255),

opening\_date DATE

);

CREATE TABLE Transaction (

transaction\_id INT PRIMARY KEY,

account\_id INT,

transaction\_date DATE,

amount DECIMAL(10, 2),

transaction\_type VARCHAR(255),

FOREIGN KEY (account\_id) REFERENCES Accounts(account\_id)

);

-- Insert queries for the Accounts table

INSERT INTO Accounts (account\_id, account\_holder, account\_type, opening\_date) VALUES

(1, 'John Doe', 'Savings', '2023-01-01'),

(2, 'Jane Doe', 'Checking', '2023-02-01'),

(3, 'Bob Smith', 'Savings', '2023-03-01');

-- Insert queries for the Transaction table

INSERT INTO Transaction (transaction\_id, account\_id, transaction\_date, amount, transaction\_type) VALUES

(1, 1, '2023-03-10', 200.00, 'Deposit'),

(2, 1, '2023-03-15', -50.00, 'Withdrawal'),

(3, 2, '2023-03-20', 500.00, 'Deposit'),

(4, 3, '2023-03-25', 150.00, 'Deposit'),

(5, 3, '2023-03-30', -100.00, 'Withdrawal');

-- Create queries

CREATE TABLE Customers (

customer\_id INT PRIMARY KEY,

customer\_name VARCHAR(255)

);

CREATE TABLE Sales\_Records (

record\_id INT PRIMARY KEY,

customer\_id INT,

sales\_amount DECIMAL(10, 2),

sales\_date DATE,

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

);

-- Insert queries for the Customers table

INSERT INTO Customers (customer\_id, customer\_name) VALUES

(1, 'John Doe'),

(2, 'Jane Smith'),

(3, 'Michael Johnson');

-- Insert queries for the Sales\_Records table

INSERT INTO Sales\_Records (record\_id, customer\_id, sales\_amount, sales\_date) VALUES

(1, 1, 500.00, '2024-01-01'),

(2, 1, 700.00, '2024-02-15'),

(3, 2, 1000.00, '2024-03-10'),

(4, 3, 300.00, '2024-04-02'),

(5, 2, 1200.00, '2024-03-20'),

(6, 3, 400.00, '2024-01-05');

CREATE TABLE Energy\_Records (

record\_id INT PRIMARY KEY,

customer\_id INT,

energy\_consumption DECIMAL(10, 2),

energy\_date DATE,

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

);

-- Insert queries for the Energy\_Records table

INSERT INTO Energy\_Records (record\_id, customer\_id, energy\_consumption, energy\_date) VALUES

(1, 1, 500.00, '2024-01-01'),

(2, 1, 700.00, '2024-02-15'),

(3, 2, 1000.00, '2024-03-10'),

(4, 3, 300.00, '2024-04-02'),

(5, 2, 1200.00, '2024-03-20'),

(6, 3, 400.00, '2024-01-05');

-- Create queries

CREATE TABLE Departments (

department\_id INT PRIMARY KEY,

department\_name VARCHAR(255)

);

CREATE TABLE Employees (

employee\_id INT PRIMARY KEY,

employee\_name VARCHAR(255),

department\_id INT,

salary DECIMAL(10, 2),

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

);

CREATE TABLE HR\_Records (

record\_id INT PRIMARY KEY,

employee\_id INT,

promotion\_date DATE,

termination\_date DATE,

FOREIGN KEY (employee\_id) REFERENCES Employees(employee\_id)

);

-- Insert queries for the Departments table

INSERT INTO Departments (department\_id, department\_name) VALUES

(1, 'Sales'),

(2, 'Marketing'),

(3, 'Finance');

-- Insert queries for the Employees table

INSERT INTO Employees (employee\_id, employee\_name, department\_id, salary) VALUES

(1, 'John Doe', 1, 50000.00),

(2, 'Jane Smith', 2, 60000.00),

(3, 'Michael Johnson', 1, 55000.00),

(4, 'Emily Brown', 3, 70000.00),

(5, 'David Lee', 1, 48000.00),

(6, 'Jessica White', 2, 62000.00);

-- Insert queries for the HR\_Records table

INSERT INTO HR\_Records (record\_id, employee\_id, promotion\_date, termination\_date) VALUES

(1, 1, '2023-01-15', NULL),

(2, 2, '2022-12-20', '2024-03-31'),

(3, 3, '2024-02-10', NULL),

(4, 4, '2024-01-05', NULL),

(5, 5, '2023-11-30', NULL),

(6, 6, '2024-03-15', NULL);

-- Create queries

CREATE TABLE Stocks (

stock\_id INT PRIMARY KEY,

stock\_name VARCHAR(10),

sector VARCHAR(255)

);

CREATE TABLE Stock\_Prices (

price\_id INT PRIMARY KEY,

stock\_id INT,

price\_date DATE,

closing\_price DECIMAL(10, 2),

FOREIGN KEY (stock\_id) REFERENCES Stocks(stock\_id)

);

-- Insert queries for the Stocks table

INSERT INTO Stocks (stock\_id, stock\_name, sector) VALUES

(1, 'AAPL', 'Technology'),

(2, 'AMZN', 'Consumer Discretionary'),

(3, 'GOOGL', 'Technology'),

(4, 'MSFT', 'Technology'),

(5, 'JPM', 'Financial Services'),

(6, 'V', 'Financial Services');

-- Insert queries for the Stock\_Prices table

INSERT INTO Stock\_Prices (price\_id, stock\_id, price\_date, closing\_price) VALUES

(1, 1, '2023-01-15', 180.00),

(2, 1, '2023-01-16', 185.00),

(3, 1, '2023-01-17', 190.00),

(4, 2, '2023-01-15', 3200.00),

(5, 2, '2023-01-16', 3250.00),

(6, 2, '2023-01-17', 3300.00),

(7, 3, '2023-01-15', 2700.00);