**JAVA FOUNDATION TRAINING**

**BATCH 8**

**JAVA CODING CHALLENGE**

**Name: Rajalakshmi G**

**SQL query: Career Hub**

**Companies Table**

CREATE TABLE IF NOT EXISTS Companies (

CompanyID INT AUTO\_INCREMENT PRIMARY KEY,

CompanyName VARCHAR(100) NOT NULL,

Location VARCHAR(100) NOT NULL

);

**Applicants Table**

CREATE TABLE IF NOT EXISTS Applicants (

ApplicantID INT AUTO\_INCREMENT PRIMARY KEY,

FirstName VARCHAR(50) NOT NULL,

LastName VARCHAR(50) NOT NULL,

Email VARCHAR(100) NOT NULL,

Phone VARCHAR(15) NOT NULL,

Resume VARCHAR(255) NOT NULL

);

**Jobs Table**

CREATE TABLE IF NOT EXISTS Jobs (

JobID INT AUTO\_INCREMENT PRIMARY KEY,

CompanyID INT NOT NULL,

JobTitle VARCHAR(100) NOT NULL,

JobDescription TEXT NOT NULL,

JobLocation VARCHAR(100) NOT NULL,

Salary DECIMAL(10, 2) NOT NULL,

JobType VARCHAR(50) NOT NULL,

PostedDate DATE NOT NULL,

FOREIGN KEY (CompanyID) REFERENCES Companies(CompanyID)

ON DELETE CASCADE

);

**Applications Table**

CREATE TABLE IF NOT EXISTS Applications (

ApplicationID INT AUTO\_INCREMENT PRIMARY KEY,

JobID INT NOT NULL,

ApplicantID INT NOT NULL,

ApplicationDate DATE NOT NULL,

CoverLetter TEXT NOT NULL,

FOREIGN KEY (JobID) REFERENCES Jobs(JobID)

ON DELETE CASCADE,

FOREIGN KEY (ApplicantID) REFERENCES Applicants(ApplicantID)

ON DELETE CASCADE );

**Companies**

INSERT INTO Companies (CompanyName, Location) VALUES

('TechNova', 'New York'),

('InnoSoft', 'San Francisco'),

('CloudLink', 'Austin'),

('DataSpark', 'Chicago'),

('NextGen Solutions', 'Seattle');

**Applicants**

INSERT INTO Applicants (FirstName, LastName, Email, Phone, Resume) VALUES

('Alice', 'Walker', 'Alice@gmail.com', '9876543210', 'alice\_resume.pdf'),

('Bob', 'Johnson', 'Bob@gmail.com', '9123456780', 'bob\_resume.pdf'),

('Charlie', 'Smith', 'Charlie@gmail.com', '9988776655', 'charlie\_resume.pdf'),

('Diana', 'Miller', 'Diana@gmail.com', '9090909090', 'diana\_resume.pdf'),

('Ethan', 'Brown', 'Ethan@gmail.com', '8008008000', 'ethan\_resume.pdf');

**Jobs**

INSERT INTO Jobs (CompanyID, JobTitle, JobDescription, JobLocation, Salary, JobType, PostedDate) VALUES

(1, 'Java Developer', 'Develop and maintain Java applications.', 'New York', 85000.00, 'Full-Time', '2025-04-01'),

(2, 'Frontend Developer', 'Work with Angular and React.', 'San Francisco', 78000.00, 'Full-Time', '2025-04-02'),

(3, 'Data Analyst', 'Analyze and interpret complex data.', 'Austin', 72000.00, 'Part-Time', '2025-04-03'),

(4, 'DevOps Engineer', 'Manage cloud infrastructure and CI/CD.', 'Chicago', 90000.00, 'Contract', '2025-04-04'),

(5, 'QA Tester', 'Automate and perform testing.', 'Seattle', 65000.00, 'Full-Time', '2025-04-05');

**Applications**

INSERT INTO Applications (JobID, ApplicantID, ApplicationDate, CoverLetter) VALUES

(1, 1, '2025-04-06', 'I am very interested in the Java Developer role.'),

(2, 2, '2025-04-06', 'Looking forward to joining your frontend team.'),

(3, 3, '2025-04-07', 'Data analysis is my passion.'),

(4, 4, '2025-04-08', 'Experienced in DevOps and cloud tools.'),

(5, 5, '2025-04-09', 'Detail-oriented and passionate about testing.');