**SQL TABLES AND INSERTION FOR JAVA CODING CHALLENGE**

Create Database careerhub;

Use careerhub;

CREATE TABLE JobListing (

JobID INT PRIMARY KEY AUTO\_INCREMENT,

CompanyID INT,

JobTitle VARCHAR(255),

JobDescription TEXT,

JobLocation VARCHAR(255),

Salary DECIMAL(10, 2),

JobType VARCHAR(50),

PostedDate DATETIME,

FOREIGN KEY (CompanyID) REFERENCES Company(CompanyID)

);

CREATE TABLE Company (

CompanyID INT PRIMARY KEY AUTO\_INCREMENT,

CompanyName VARCHAR(255),

Location VARCHAR(255)

);

CREATE TABLE Applicant (

ApplicantID INT PRIMARY KEY AUTO\_INCREMENT,

FirstName VARCHAR(100),

LastName VARCHAR(100),

Email VARCHAR(255),

Phone VARCHAR(15),

Resume VARCHAR(255) -- Assuming file path or file reference.

);

CREATE TABLE JobApplication (

ApplicationID INT PRIMARY KEY AUTO\_INCREMENT,

JobID INT,

ApplicantID INT,

ApplicationDate DATETIME,

CoverLetter TEXT,

FOREIGN KEY (JobID) REFERENCES JobListing(JobID),

FOREIGN KEY (ApplicantID) REFERENCES Applicant(ApplicantID)

);

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

VALUES (1, 'Software Engineer', 'Develop software solutions', 'New York', 80000.00, 'Full-time', NOW());

INSERT INTO Company (CompanyName, Location)

VALUES ('Hexaware Technologies', 'India');

INSERT INTO Applicant (FirstName, LastName, Email, Phone, Resume)

VALUES ('John', 'Doe', 'john.doe@example.com', '9876543210', 'path/to/resume.pdf');

INSERT INTO JobApplication (JobID, ApplicantID, ApplicationDate, CoverLetter)

VALUES (1, 1, NOW(), 'I am very interested in this position because...');