**SQL Workshop: DDL and DML in Depth**

**Introduction**

This document guides you through an extensive workshop on Data Definition Language (DDL) and Data Manipulation Language (DML) statements. It provides practical examples within the context of the HireMeNow Job Portal Application.

**Workshop Organization**

This workshop is organized into sections covering the creation of user access, databases, and associated tables.

**Data Control Language (DCL)**

**Create User Access**

CREATE LOGIN test WITH PASSWORD = 'root';

CREATE USER test FOR LOGIN test;

**Data Definition Language (DDL)**

**Create Database**

CREATE DATABASE HireMeNowDB;

USE HireMeNowDB;

**Users Table**

CREATE TABLE [dbo].[Users](

Id UNIQUEIDENTIFIER DEFAULT NEWID() PRIMARY KEY,

[FirstName] [varchar](50) NULL,

[MiddleName] [varchar](50) NULL,

[LastName] [varchar](50) NULL,

[Email] [varchar](50) NOT NULL UNIQUE,

[Gender] [varchar](50) NULL,

[Location] [varchar](50) NULL,

[Phone] [varchar](50) NULL,

[Password] [varchar](50) NULL,

[Role] [varchar](50) NULL,

[About] [varchar](50) NULL,

[Designation] [varchar](50) NULL,

[CompanyId] [uniqueidentifier] NULL,

[Image] [varchar](50) NULL

);

ALTER TABLE Users ADD CONSTRAINT email\_unique UNIQUE (Email);

ALTER TABLE Users ADD Status Varchar(50);

ALTER TABLE Users DROP COLUMN MiddleName;

**Jobs Table**

CREATE TABLE Job (

Id UNIQUEIDENTIFIER DEFAULT NEWID() PRIMARY KEY,

[Title] [varchar](50) NULL,

[Description] [varchar](50) NULL,

[Location] [varchar](50) NULL,

[Experience] [varchar](50) NULL,

[TypeOfWorkPlace] [varchar](50) NULL,

[Salary] [varchar](50) NULL,

[Responsibilities] [varchar](50) NULL,

[JobType] [varchar](50) NULL,

[VacanciesCount] [int] NULL,

[AppliedCount] [int] NULL,

[Status] [varchar](50) NULL,

[CompanyId] [uniqueidentifier] NULL,

[CreatedBy] [uniqueidentifier] REFERENCES Users (Id)

);

**Data Manipulation Language (DML)**

**Users Table**

-- Add Job Provider

INSERT INTO users VALUES ('9b80c5d4-5de6-4f16-acd5-26f7d392b8b9', 'Soudha', 'AM', 'soudha.aitrich@gmail.com','Female', 'Thrissur', NULL, '123', 'Jobprovider', NULL, NULL, NULL, 'Active', NULL);

-- Add Jobseekers

INSERT INTO users VALUES ('6fa50404-3754-4062-a4b0-ca333468e69a', 'yadhu', 'krishna', 'yadhu.aitrich@gmail.com', NULL, 'Thrissur', NULL, '123', 'Jobseeker', NULL, NULL, NULL, 'Active', NULL);

-- Update Jobseeker details

UPDATE Users SET

Phone = '8085499250',

Location='Kochi',

About='Experienced .NET developer with 5+ years of experience in building Enterprise applications'

WHERE email = 'yadhu.aitrich@gmail.com';

-- List all users

SELECT \* FROM users;

-- List Jobseekers

SELECT \* FROM users WHERE Role='Jobseeker';

-- List Jobproviders

SELECT \* FROM users WHERE Role='Jobprovider';

-- Remove a User

DELETE FROM Users WHERE Email='shini@gmail.com';

**Jobs Table**

-- Add Job

INSERT INTO job VALUES ('Dotnet Developer', 'need a senior dotnet lead developer', 'thrissur', '2', 'WFH', '500000-800000', 'need to lead a team ', 'FullTime', 50, 14, 'Active', 'ab5f391e-d83e-4eae-87cd-bca23175cf22', 'a33a76cb-d35c-45ce-9458-8a9e6d9f84a7');

-- List all jobs

SELECT \* FROM job;

-- List jobs added by user 'soudha.aitrich@gmail.com'

SELECT j.Title, j.Description, j.Responsibilities, j.Experience, j.Location FROM job j, users u WHERE u.Email='soudha.aitrich@gmail.com' AND j.CreatedBy=u.Id;

-- List jobs with title containing 'Dotnet'

SELECT \* FROM job WHERE Title LIKE '%Dotnet%';

-- List jobs in Thrissur

SELECT \* FROM job WHERE Location='thrissur';

-- List all job details with JobProvider info

SELECT j.Title, j.Description, j.Responsibilities, j.Experience, j.Location, u.FirstName FROM job j INNER JOIN users u ON u.Id = j.CreatedBy;

**Conclusion**

Congratulations! You've completed an extensive workshop covering DDL and DML in SQL. Explore further to enhance your skills.

Happy coding!