**SQL Workshop 1: DDL and DML Basics**

**Welcome**

Welcome to the SQL Workshop on Data Definition Language (DDL) and Data Manipulation Language (DML)! In this session, you will learn fundamental SQL commands for creating databases, tables, and manipulating data using the example of the HireMeNow Job Portal Application.

**DDL: Database and Table Creation**

# Create Database

CREATE DATABASE HireMeNowDB;

USE HireMeNowDB;

# Companies Table

CREATE TABLE Companies (

Id UNIQUEIDENTIFIER DEFAULT NEWID() PRIMARY KEY,

[Name] [varchar](100) NULL,

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

[Website] [varchar](50) NULL,

[Phone] [varchar](50) NULL,

[About] [varchar](300) NULL,

[Location] [varchar](50) NULL,

[Status] [varchar](50) NULL

);

-- Rename table, alter column, and rename column

EXEC sp\_rename 'Company', 'Companies';

ALTER TABLE Companies ALTER COLUMN About varchar(300);

EXEC sp\_rename 'Companies.Place', 'Location', 'COLUMN';

# Users Table

CREATE TABLE Users (

Id UNIQUEIDENTIFIER DEFAULT NEWID() PRIMARY KEY,

[FirstName] [varchar](50) NULL,

[LastName] [varchar](50) NULL,

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

[Gender] [varchar](50) NULL,

[Location] [varchar](50) NULL,

[CompanyId] [uniqueidentifier] NULL,

[Status] [varchar](50) NULL

);

-- Add unique constraint to 'Email'

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

**DML: Data Manipulation**

# Companies Table

-- Add, list, update, and delete company

INSERT INTO Companies VALUES (...);

SELECT \* FROM Companies;

UPDATE Companies SET Name = 'Aitrich Academy' WHERE Email = '...';

DELETE FROM Companies WHERE Email = '...';

# Users Table

-- Add job provider, jobseeker, and company member

INSERT INTO Users VALUES (...);

INSERT INTO Users VALUES (...);

INSERT INTO Users VALUES (...);

-- Update user details

UPDATE Users SET Location = 'Kochi' WHERE Email = '...';

-- List jobseekers

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

**Conclusion**

Congratulations! You've learned essential DDL and DML operations. Feel free to explore and practice these commands to enhance your SQL skills.

**Happy coding!**