# **Introduction**

This document explains the workshop module for the topic, DDL and DML statements. It illustrates the examples of DDL and DML statements.

# **How is it Organized?**

This workshop contains the SQL statements for creating a User Access And a database and its associated tables related to HireMeNow Job Portal Application .

## DCL

Create a User to access or manipulate data.

**CREATE LOGIN test WITH PASSWORD = 'root';**

**CREATE USER test FOR LOGIN test;**

## DDL

Create a database for HireMeNow Job Portal Application .

**CREATE DATABASE HireMeNowDB;**

Use Database HireMeNow\_DB For Further operations

**USE** **HireMeNowDB**

### Users

* Create a Table Called Users to store information of all Users with following columns :

| **Users** | | |
| --- | --- | --- |
| **Field Name** | **DataType** | **Constraints** |
| Id | UNIQUEIDENTIFIER | Primary Key,DEFAULT NEWID() |
| FirstName | Varchar(50) |  |
| LastName | Varchar(50) |  |
| Email | Varchar(100) | NOT NULL,UNIQUE |
| Gender | Varchar(30) |  |
| Location | Varchar(50) |  |
| Phone | Varchar(50) |  |
| Password | Varchar(50) |  |
| Role | Varchar(50) |  |
| About | Varchar(50) |  |
| Designation | Varchar(50) |  |
| CompanyId | UNIQUEIDENTIFIER |  |
| Image | Varchar(100) |  |
| Status | Varchar(50) |  |

**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,**

**[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**

**)**

### Jobs

* Create a Table Called Jobs to store information of all Jobs with following columns:

| **Jobs** | | |
| --- | --- | --- |
| **Field Name** | **DataType** | **Constraints** |
| Id | UNIQUEIDENTIFIER | Primary Key,DEFAULT NEWID() |
| Title | Varchar(50) |  |
| Description | Varchar(100) |  |
| Location | Varchar(50) |  |
| Experience | Varchar(30) |  |
| TypeOfWorkPlace | Varchar(50) |  |
| Responsibilities | Varchar(100) |  |
| Salary | Varchar(50) |  |
| JobType | Varchar(50) |  |
| VacanciesCount | Int |  |
| AppliedCount | Int |  |
| CompanyId | UNIQUEIDENTIFIER |  |
| Status | Varchar(50) |  |

**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**

**)**

* Add a column CreatedBy as UNIQUEIDENTIFIER as FOREIGN KEY to Users table

**ALTER TABLE Jobs ADD CreatedBy UNIQUEIDENTIFIER REFERENCES Users (id);**

### Applications

* Create a Table Called Applications to store All Applications with following columns :

| **Experiences** | | |
| --- | --- | --- |
| **Field Name** | **DataType** | **Constraints** |
| Id | UNIQUEIDENTIFIER | Primary Key,DEFAULT NEWID() |
| UserId | UNIQUEIDENTIFIER | FOREIGN KEY, NOT NULL |
| JobId | UNIQUEIDENTIFIER | NOT NULL,FOREIGN KEY |
| AppliedDate | Date |  |
| Status | Varchar(50) |  |

CREATE TABLE Applications (

Id UNIQUEIDENTIFIER DEFAULT NEWID() PRIMARY KEY,

[UserId] [uniqueidentifier] NULL,

[JobId] [uniqueidentifier] NULL,

[AppliedDate] [Date] NULL,

[Status] [varchar](50) NULL,

FOREIGN KEY (UserId) REFERENCES Users(Id),

FOREIGN KEY (JobId) REFERENCES Jobs(Id)

)

## DML

### Users

* Add Users into table Users

**INSERT INTO users**

**(Id,FirstName, LastName, Email, Gender, Location, Phone, Password, Role, About,Designation, CompanyId, Status, Image)**

**VALUES**

**( ‘9b80c5d4-5de6-4f16-acd5-26f7d392b8b9’,'Soudha', 'AM', 'soudha.aitrich@gmail.com','Female', 'Thrissur', NULL, '123', 'Jobprovider', NULL, NULL, NULL, 'Active', NULL),**

**(‘6fa50404-3754-4062-a4b0-ca333468e69a’, 'yadhu', 'krishna', 'yadhu.aitrich@gmail.com', NULL, 'Thrissur', NULL, '123', 'Jobseeker', NULL, NULL, NULL, 'Active', NULL)**

* Update Phone , Location,About Of a jobseeker with email id ‘[yadhu.aitrich@gmail.com](mailto:yadhu.aitrich@gmail.com)’

**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 from Users Table

**Select \* from users**

* List all Jobseekers from Users Table

**Select \* from users where Role=’Jobseeker’**

* List all Jobproviders from Users Table

**Select \* from users where Role=’Jobprovider’**

* Remove a User from Users Table Where Email id is “shini@gmail.com”

**Delete from Users where Email=’shini@gmail.com’**

### Jobs

* Add Job to Jobs Table

**INSERT INTO job**

**( Id,Title, Description, Location, Experience, TypeOfWorkPlace, Salary, Responsibilities, JobType, VacanciesCount, AppliedCount, Status, CompanyId, CreatedBy)**

**VALUES**

**('aab8c9ab-a8d4-47e8-8098-a412a4ccdc79', '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')**

**GO**

* List all jobs from Jobs Table

**select \* from jobs**

* List all jobs added by user with email id [soudha.aitrich@gmail.com](mailto:soudha.aitrich@gmail.com) from Jobs Table

**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 all jobs from Jobs Table where job title is like Dotnet

**select \* from job where Title like '%Dotnet%'**

* List all jobs from Jobs Table where location Thrissur

**select \* from job where Location=’thrissur’**

* List all details of jobs, including the details of the JobProvider who added the job.

**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**

### Applications

* Add Application to Applications Table

**INSERT INTO Applications ( UserId, JobId, Status, AppliedDate ) VALUES ( 'a33a76cb-d35c-45ce-9458-8a9e6d9f84a7', 'aab8c9ab-a8d4-47e8-8098-a412a4ccdc79', 'Pending', '2023-10-11' )**

* List All applications of a jobseeker whose email id is [yadhu.aitrich@gmail.com](mailto:yadhu.aitrich@gmail.com) from Applications Table

**Select \* from Applications a ,users u where a.UserId=u.Id and u.Email='yadhu.aitrich@gmail.com'**

* List All applications Including Job Title ,Applied User’s FirstName, User’s Location

**Select j.Title, u.FirstName, u.Location from Applications a**

**INNER JOIN users u ON u.Id = a.UserId**

**INNER JOIN job j ON j.Id = a.JobId**

* Update Applications status to Cancelled Where JobId is **'aab8c9ab-a8d4-47e8-8098-a412a4ccdc79'**

**Update applications set Status='Cancelled' Where JobId='aab8c9ab-a8d4-47e8-8098-a412a4ccdc79'**

* Remove All ApplicationsWhere JobId is **'aab8c9ab-a8d4-47e8-8098-a412a4ccdc79'**

**Delete from applications Where JobId='aab8c9ab-a8d4-47e8-8098-a412a4ccdc79'**