# **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 |  |
| Status | Varchar(50) |  |
| Image | Varchar(100) |  |

**CREATE TABLE [dbo].[Users](**

**Id UNIQUEIDENTIFIER DEFAULT NEWID() PRIMARY KEY,**

**[FirstName] [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,**

**[Status] [varchar](50) NULL,**

**[Image] [varchar](50) NULL,**

**)**

### Experiences

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

| **Experience** | | |
| --- | --- | --- |
| **Field Name** | **DataType** | **Constraints** |
| Id | UNIQUEIDENTIFIER | Primary Key,DEFAULT NEWID() |
| UserId | UNIQUEIDENTIFIER |  |
| JobTitle | Varchar(50) | NOT NULL |
| Company | Varchar(20) | NOT NULL |
| Duration | Varchar(50) |  |
| Year | Varchar(50) |  |

CREATE TABLE [dbo].[Experience](

Id UNIQUEIDENTIFIER DEFAULT NEWID() PRIMARY KEY,

[UserId] [uniqueidentifier] NULL,

[JobTitle] [varchar](50) NULL,

[Company] [varchar](20) NULL,

[Duration] [varchar](50) NULL,

[Year] [varchar](50) NULL,

)

* Rename Table Experience to Experiences

**EXEC sp\_rename 'Experience', 'Experiences' ;**

* Add Foreign Key Contraint to UserId In Experiences Table

**ALTER TABLE Experiences ADD CONSTRAINT fk\_users\_id FOREIGN KEY (UserId) REFERENCES Users(Id)**

* Change Type of Company to Varchar(50) In Experience Table

**ALTER TABLE Experiences ALTER COLUMN Company varchar(50);**

## DCL

Grand necessary Permission to user **test** for access or manipulate data.

**GRANT SELECT, INSERT, UPDATE ,Delete ON HireMeNowDB.[dbo].[Experiences] TO test;**

## DML

### Users

* Add Job Provider 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)**

**GO**

* Add Jobseekers into table Users

**INSERT INTO users**

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

**VALUES**

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

**GO**

* Add CompanyMember into table Users

**INSERT INTO users**

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

**VALUES**

**(‘08569e5d-b488-4c09-a7d1-e60fe4e5a512’, 'shini', 'parameswaran', 'shini.aitrich@gmail.com', NULL, 'Thrissur', NULL, '123', 'CompanyMember', NULL, NULL, 'ab5f391e-d83e-4eae-87cd-bca23175cf22', 'Active', NULL)**

**GO**

* 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**](mailto:yadhu.aitrich@gmail.com)**';**

* Update Jobprovider soudha ,Add CompanyId

**UPDATE Users SET CompanyId= 'ab5f391e-d83e-4eae-87cd-bca23175cf22', WHERE email = '**[**soudha.aitrich@gmail.com**](mailto:soudha.aitrich@gmail.com)**';**

* List all Jobseekers Details from Users Table

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

* List all Jobproviders Details from Users Table

**Select \* from Users where Role = ’Jobproviders’**

* Show All Details Of Jobseeker whose email is ‘[yadhu.aitrich@gmail.com](mailto:yadhu.aitrich@gmail.com)’

**Select \* from Users where Role=’Jobseeker’ and Email=’**[**yadhu.aitrich@gmail.com**](mailto:yadhu.aitrich@gmail.com)**’**

### 

### Experiences

* Add Experience to Experience Table

**INSERT experience ( UserId, JobTitle, Company, Duration, Year)**

**VALUES**

**( '6fa50404-3754-4062-a4b0-ca333468e69a', 'Dotnet Developer', 'Aitrich Technologies', '2 years', '2021-2023'),**

**( '6fa50404-3754-4062-a4b0-ca333468e69a', 'Dotnet Developer', 'TCS', '2 years', '2019-2021' )**

**GO**

* List All Experiences of a jobseeker with email id ’[yadhu.aitrich@gmail.com](mailto:yadhu.aitrich@gmail.com)’

**select e.Id,e.Company,e.JobTitle,e.Duration,e.Year from experience e, users u where u.Email='yadhu.aitrich@gmail.com' and e.UserId=u.Id**

* List All Experiences of all jobseekers

**SELECT u.Id,u.FirstName, e.Company, e.JobTitle , e.Duration , e.Year FROM experience e INNER JOIN users u ON e.UserId = u.Id;**

* Remove Experience By Id

**Delete from experience where Id='011314ef-148e-49ab-97c4-93fd77260821'**