



BASIC RELATIONAL DATABASE DESIGN

ASSIGNMENT-1

Prerequisite :: Please execute all the below scripts to create database ,Create Tables and Insert Data scripts.

```
CREATE DATABASE Training_Basic;  
USE Training_Basic;
```

1. Create Tables

```
CREATE TABLE Trainer_info( Trainer_id VARCHAR(20) PRIMARY KEY, Salutation VARCHAR(7)  
NOT NULL, Trainer_Name VARCHAR(30) NOT NULL, Trainer_Location VARCHAR(30) NOT  
NULL, Trainer_Track VARCHAR(15) NOT NULL, Trainer_Qualification VARCHAR(100) NOT  
NULL, Trainer_Experience INT(11) NOT NULL, Trainer_Email VARCHAR(100) NOT NULL,  
Trainer_Password VARCHAR(20) NOT NULL, CONSTRAINT UC_Email UNIQUE (Trainer_Email)  
);
```

```
CREATE TABLE Module_Info( Module_Id VARCHAR(20) PRIMARY KEY, Module_Name  
VARCHAR(40), Module_Duration INT(11),;
```

2. INSERT DATA

```
INSERT INTO Trainer_Info(Trainer_Id, Salutation, Trainer_Name, Trainer_Location,  
Trainer_Track, Trainer_Qualification, Trainer_Experience, Trainer_Email, Trainer_Password)  
VALUES ('F001', 'Mr.', 'PANKAJ GHOSH', 'Pune', 'Java', 'Bachelor of Technology', 12,  
'Pankaj.Ghosh@alliance.com', 'fac1@123'), ('F002', 'Mr.', 'SANJAY RADHAKRISHNAN',  
'Bangalore', 'DotNet', 'Bachelor of Technology', 12, 'Sanjay.Radhakrishnan@alliance.com',  
'fac2@123'), ('F003', 'Mr.', 'VIJAY MATHUR', 'Chennai', 'Mainframe', 'Bachelor of  
Technology', 10, 'Vijay.Mathur@alliance.com', 'fac3@123'), ('F004', 'Mrs.', 'NANDINI NAIR',  
'Kolkata', 'Java', 'Master of Computer Applications', 9, 'Nandini.Nair@alliance.com',
```

'fac4@123'), ('F005', 'Miss.', 'ANITHA PAREKH', 'Hyderabad', 'Testing', 'Master of Computer Applications', 6, 'Anitha.Parekh@alliance.com', 'fac5@123');

```
INSERT INTO Module_Info(Module_Id, Module_Name, Module_Duration)
VALUES('O10SQL', 'Oracle 10g SQL', 16), ('O10PLSQL', 'Oracle 10g PL/ SQL', 16), ('J2SE', 'Core
Java SE 1.6', 288),    ('J2EE', 'Advanced Java EE 1.6', 80),    ('JAVAFX', 'JavaFX 2.1', 80),
('DOTNET4', '.Net Framework 4.0', 50),    ('SQL2008', 'MS SQL Server 2008', 120);
```

- 3.) Identify the primary key for both the tables
- 4.) Identify all the NOT NULL Fields for both the tables.
- 5.) List out all the fields with specification/Data Type as INT .
- 6.) Identify all the fields with unique constraint.