Assignment-2

1) Create a table **EMP1** with following structure.

ID	Name	Basic	Designation	Age

Details of Attributes:-

ID	Number (2)
Name	Varchar2 (10)
Basic	Number (6, 2)
Designation	Varchar2 (20)
Age	Number (2)

ANS :

```
CREATE TABLE `emp1` (
   `ID` INT NOT NULL,
   `Name` VARCHAR(10) NULL,
   `Basic` DECIMAL(6,2) NULL,
   `Designation` VARCHAR(20) NULL,
   `Age` INT NULL,
   PRIMARY KEY (`ID`));
```

Query OK, 1 row affected (0.01 sec)

2) Change the data type of the field Basic from float to integer with required size of the **EMP1** table

Ans :

```
ALTER TABLE `emp1`
CHANGE COLUMN `Basic` `Basic` INT(6) NULL DEFAULT NULL ;
```

Query OK, 1 row affected (0.01 sec)

3) Change the field size of Name column of the **EMP1** table from 10 to 15.

Ans :

```
ALTER TABLE `emp1`
CHANGE COLUMN `Name` `Name` VARCHAR(15) NULL DEFAULT NULL ;
```

Query OK, 1 row affected (0.01 sec)

4) Create another table **EMP_trainee** with the same (changed) structure. The column ID to be renamed as Emp_id in the **EMP_trainee** table.

Ans :

```
CREATE TABLE `emp_trainee` (
   `EMP_id` INT NOT NULL,
   `Name` VARCHAR(15) NULL,
   `Basic` INT(6) NULL,
   `Designation` VARCHAR(20) NULL,
   `Age` INT NULL,
   PRIMARY KEY (`EMP_id`));
```

Query OK, 1 row affected (0.01 sec)

5) Insert following data in **EMP1** table:-

(1, Rohit, 6700, Manager, 24)
(2, Sunil, 6200, Engineer, 27)
(3, Payal, 6300, Engineer, 25)
(4, Kunal, 6700, Trainee, 28)
(5, Sunita, 6230, Trainee, 26)
(6, Bimal, 7000, Trainee, 25)

Ans :

```
INSERT INTO `emp1` VALUES ('1', 'Rohit', '6700', 'Manager', '24');
```
Query OK, 1 row affected (0.01 sec)
```
INSERT INTO `emp1` VALUES ('2', 'Sunil', '6200', 'Engineer', '27');
```
Query OK, 1 row affected (0.01 sec)
```
INSERT INTO `emp1` VALUES ('3', 'Payel', '6300', 'Engineer', '25');
```
Query OK, 1 row affected (0.01 sec)
```
INSERT INTO `emp1` VALUES ('4', 'Kunal', '6700', 'Trainee', '28');
```
Query OK, 1 row affected (0.01 sec)
```
INSERT INTO `emp1` VALUES ('5', 'Sunita', '6230', 'Trainee', '26');
```
Query OK, 1 row affected (0.01 sec)
```
INSERT INTO `emp1` VALUES ('6', 'Bimal', '7000', 'Trainee', '25');
```

Query OK, 1 row affected (0.01 sec)

6. Insert all rows with the designation ‘trainee’ from the **EMP1** table to **EMP_trainee** table.

Ans :

```
INSERT INTO `emp_trainee`  VALUES ('2', 'Sunil', '6200', 'Trainee', '27');
INSERT INTO `emp_trainee`  VALUES ('3', 'Payel', '6300', 'Trainee', '25');
INSERT INTO `emp_trainee`  VALUES ('4', 'Kunal', '6700', 'Trainee', '28');
INSERT INTO `emp_trainee`  VALUES ('5', 'Sunita', '6230', 'Trainee', '26');
INSERT INTO `emp_trainee`  VALUES ('6', 'Bimal', '7000', 'Trainee', '25');
```

Query OK, 1 row affected (0.01 sec)

7) Change the designation of all trainees in **EMP_trainee** table to ‘Programmer _Trainee’.

Ans : update emp_trainee set designation = 'Programmer_Trainee';

Query OK, 6 rows affected (0.00 sec)
Rows matched: 6 Changed: 6 Warnings: 0

8) Display the structure of both the tables.

```
mysql> desc emp1;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| ID          | int         | NO   | PRI | NULL    |       |
| Name        | varchar(15) | YES  |     | NULL    |       |
| Basic       | int         | YES  |     | NULL    |       |
| Designation | varchar(20) | YES  |     | NULL    |       |
| Age         | int         | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql> desc emp_trainee;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| EMP_id      | int         | NO   | PRI | NULL    |       |
| Name        | varchar(15) | YES  |     | NULL    |       |
| Basic       | int         | YES  |     | NULL    |       |
| Designation | varchar(20) | YES  |     | NULL    |       |
| Age         | int         | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

9) Add columns Skills (data type-varchar2 and size-10) and DOJ(data type-date) to the **EMP1** table and add data for the Skills and DOJ columns according to your own wish.

Ans :

```
ALTER TABLE `university_assignment`.`emp1`
ADD COLUMN `skill` VARCHAR(45) NULL AFTER `Age`,
ADD COLUMN `doj` DATETIME NULL AFTER `skill`;
```

Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

```
mysql> update emp1 set skill = "Programming";
```

Query OK, 6 rows affected (0.01 sec)
Rows matched: 6 Changed: 6 Warnings: 0

```
mysql> update emp1 set doj = "Programming";
```

Query OK, 6 rows affected (0.01 sec)
Rows matched: 6 Changed: 6 Warnings: 0

```
UPDATE `emp1` SET `doj` = '2022-04-23';
```

Query OK, 6 rows affected (0.01 sec)
Rows matched: 6 Changed: 6 Warnings: 0

10) Display both the tables **EMP1** and **EMP_trainee**.

Ans:

```
mysql> select * from emp1;
+----+--------+-------+-------------+------+-------------+---------------------+
| ID | Name   | Basic | Designation | Age  | skill       | doj                 |
+----+--------+-------+-------------+------+-------------+---------------------+
|  1 | Rohit  |  6700 | Manager     |   24 | Programming | 2022-04-23 00:00:00 |
|  2 | Sunil  |  6200 | Engineer    |   27 | Programming | 2022-04-23 00:00:00 |
|  3 | Payel  |  6300 | Engineer    |   25 | Programming | 2022-04-23 00:00:00 |
|  4 | Kunal  |  6700 | Trainee     |   28 | Programming | 2022-04-23 00:00:00 |
|  5 | Sunita |  6230 | Trainee     |   26 | Programming | 2022-04-23 00:00:00 |
|  6 | Bimal  |  7000 | Trainee     |   25 | Programming | 2022-04-23 00:00:00 |
+----+--------+-------+-------------+------+-------------+---------------------+
6 rows in set (0.00 sec)

mysql> select * from emp_trainee;
+--------+--------+-------+--------------------+------+
| EMP_id | Name   | Basic | Designation        | Age  |
+--------+--------+-------+--------------------+------+
|      1 | Rohit  |  6700 | Programmer_Trainee |   24 |
|      2 | Sunil  |  6200 | Programmer_Trainee |   27 |
|      3 | Payel  |  6300 | Programmer_Trainee |   25 |
|      4 | Kunal  |  6700 | Programmer_Trainee |   28 |
|      5 | Sunita |  6230 | Programmer_Trainee |   26 |
|      6 | Bimal  |  7000 | Programmer_Trainee |   25 |
+--------+--------+-------+--------------------+------+
6 rows in set (0.00 sec)
```

11) Delete the details of all the trainees from the **EMP1** table.

Ans :

```
delete from emp1 where designation = "Trainee";
```

Query OK, 3 rows affected (0.01 sec)

12) Drop the Age column from the **EMP_trainee** table.

Ans :

```
alter table emp_trainee drop column age;
```

Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

13) Drop two columns in one query from **EMP_trainee** table.

Ans :

```
alter table emp_trainee drop column name, drop column basic;
```

Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

14) Rename the table **EMP1** to **EMP_Mgr_Engr**.

Ans :

```
ALTER TABLE EMP1 RENAME TO EMP_Mgr_Engr;
```

Query OK, 0 rows affected (0.02 sec)

15) Drop the table **EMP_Trainee**.

Ans :

```
drop table emp_trainee;
```

Query OK, 0 rows affected (0.01 sec)

16) Truncate **EMP_Mgr_Engr** table.

Ans:

```
TRUNCATE TABLE EMP_Mgr_Engr;
```

Query OK, 0 rows affected (0.04 sec)

NOTE:-

- Write Question (Handwritten), SQL Query (Handwritten) and Output (Handwritten) for each question in the Practical File for submission and evaluation.