

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', 'Payal', '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_temp select * from emp1 where designation = "Trainee"

Query OK, 3 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 |  
+----+-----+-----+-----+-----+-----+-----+  
mysql> select * from emp_trainee;  
+----+-----+-----+-----+-----+  
| EMP_id | Name  | Basic | Designation | Age |  
+----+-----+-----+-----+-----+  
| 4  | Kunal | 6700  | Trainee     | 28 |  
| 5  | Sunita | 6230  | Trainee     | 26 |  
| 6  | Bimal | 7000  | Trainee     | 25 |  
+----+-----+-----+-----+-----+  
3 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.