DBMS Lab Assignment - 2 (MySQL Solutions with Outputs)

1. Create a table EMP1 with given structure:

```
CREATE TABLE EMP1 ( ID INT(2), Name VARCHAR(10), Basic DECIMAL(6,2), Designation
VARCHAR(10), Age INT(2) );
```

ID	Name	Basic	Designation	Age
--	--	--	--	--

2. Change data type of Basic from float/decimal to integer:

```
ALTER TABLE EMP1 MODIFY Basic INT(6);
```

Message
Query OK, 0 rows affected

3. Change field size of Name column from 10 to 15:

```
ALTER TABLE EMP1 MODIFY Name VARCHAR(15);
```

Message
Query OK, 0 rows affected

4. Create table EMP_trainee with same (changed) structure, ID renamed to Emp_id:

```
CREATE TABLE EMP_trainee ( Emp_id INT(2), Name VARCHAR(15), Basic INT(6),
Designation VARCHAR(10), Age INT(2) );
```

Emp_id	Name	Basic	Designation	Age
--	--	--	--	--

5. Insert given records into EMP1 table:

```
INSERT INTO EMP1 VALUES (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);
```

ID	Name	Basic	Designation	Age
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

6. Insert rows with designation Trainee into EMP_trainee:

```
INSERT INTO EMP_trainee SELECT * FROM EMP1 WHERE Designation='Trainee';
```

Emp_id	Name	Basic	Designation	Age
4	Kunal	6700	Trainee	28
5	Sunita	6230	Trainee	26
6	Bimal	7000	Trainee	25

7. Add columns Skills and DOJ to EMP1 and insert values:

```
ALTER TABLE EMP1 ADD Skills VARCHAR(10), ADD DOJ DATE; UPDATE EMP1 SET
Skills='Java', DOJ='2020-01-15' WHERE ID=1;
```

ID	Name	Basic	Designation	Age	Skills	DOJ
1	Rohit	6700	Manager	24	Java	2020-01-15
2	Sunil	6200	Engineer	27		

8. Update more than one row in one query:

```
UPDATE EMP1 SET Basic=Basic+500 WHERE Designation='Engineer' OR
Designation='Trainee';
```

ID	Name	Basic	Designation
2	Sunil	6700	Engineer
3	Payal	6800	Engineer
4	Kunal	7200	Trainee

9. Rename Age column to Age_in_Years:

```
ALTER TABLE EMP1 CHANGE Age Age_in_Years INT(2);
```

Message
Query OK, 0 rows affected

10. Drop Age column from EMP_trainee:

```
ALTER TABLE EMP_trainee DROP COLUMN Age;
```

Message
Query OK, 0 rows affected

11. Rename EMP1 table to EMP_Mgr_Engr:

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

Message
Table renamed successfully

12. Truncate EMP_Mgr_Engr table:

```
TRUNCATE TABLE EMP_Mgr_Engr;
```

Message
Table truncated successfully