

DBMS
LAB Assignment-2

1. Create a table EMP1 with following structure.

ID	Name	Basic	Designation	Age
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Column Description:-

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

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

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

ANS: ALTER TABLE EMP1 MODIFY Basic INT(6);

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

ANS: ALTER TABLE EMP1 MODIFY Name VARCHAR(15);

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(2),
 Name VARCHAR(15),
 Basic INT(6),
 Designation VARCHAR(10),
 Age INT(2)
);**

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),
(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);
SELECT * FROM EMP1;

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 all rows with the designation 'trainee' from the EMP1 table to EMP_trainee table.

ANS: INSERT INTO EMP_trainee
SELECT ID, Name, Basic, Designation, Age FROM EMP1
WHERE Designation = 'Trainee';

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

7. 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 EMP1 ADD Skills VARCHAR(10);
ALTER TABLE EMP1 ADD DOJ DATE;
UPDATE EMP1 SET Skills='Java', DOJ='2022-08-15' WHERE ID=1;
UPDATE EMP1 SET Skills='C++', DOJ='2022-09-10' WHERE ID=2;
UPDATE EMP1 SET Skills='Python', DOJ='2022-10-05' WHERE ID=3;

SELECT * FROM EMP1;

ID	Name	Basic	Designation	Age	Skills	DOJ
1	Rohit	6700	Manager	24	Java	2022-08-15
2	Sunil	6200	Engineer	27	C++	2022-09-10
3	Payal	6300	Engineer	25	Python	2022-10-05
4	Kunal	6700	Trainee	28	NULL	NULL
5	Sunita	6230	Trainee	26	NULL	NULL
6	Bimal	7000	Trainee	25	NULL	NULL

8. Update more than one row in one query in EMP1 table.

ANS:
UPDATE EMP1
SET Basic = Basic + 500
WHERE Designation IN ('Manager', 'Engineer');
SELECT * FROM EMP1;

ID	Name	Basic	Designation	Age	Skills	DOJ
1	Rohit	7200	Manager	24	Java	2022-08-15
2	Sunil	6700	Engineer	27	C++	2022-09-10
3	Payal	6800	Engineer	25	Python	2022-10-05
4	Kunal	6700	Trainee	28	NULL	NULL
5	Sunita	6230	Trainee	26	NULL	NULL
6	Bimal	7000	Trainee	25	NULL	NULL

9. Rename column Age of EMP1 table to Age_in_Years.

ANS:ALTER TABLE EMP1
CHANGE COLUMN Age Age_in_Years INT(2);

10. Drop the Age column from the EMP_trainee table.

ANS: ALTER TABLE EMP_trainee DROP COLUMN Age;

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| Emp_id | Name  | Basic | Designation |
+-----+-----+-----+-----+
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11. Rename the table EMP1 to EMP_Mgr_Engr.

ANS:
RENAME TABLE EMP1 TO EMP_Mgr_Engr;

12. Truncate EMP_Mgr_Engr table.

ANS:
TRUNCATE TABLE EMP_Mgr_Engr;