

# DAY: 2

## 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 Varchar(10)  
 Basic Number (6,2)  
 Designation Varchar(10)  
 Age Number (2)

= CREATE TABLE EMP1 (

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

• DESC EMP1;

Field	Type	Null	Key	Default.
ID	int	YES		NULL
Name	varchar (10)	YES		NULL
Basic	decimal (6,2)	YES		NULL
Designation	varchar (10)	YES		NULL
Age	int	YES		NULL

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

- ALTER TABLE EMP1  
MODIFY Basic DECIMAL (6);
- DESC EMP1;

Field	Type	NULL	KEY	Default.
ID	int	YES		NULL
Name	varchar(10)	YES		NULL
Basic	decimal(6,0)	YES		NULL
Designation	varchar(10)	YES		NULL
Age	int	YES		NULL

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

- ALTER TABLE EMP1  
MODIFY Name VARCHAR(15);
- DESC EMP1;

Field	Type	Null	Key	Default.
ID	int	YES		NULL
Name	varchar(15)	YES		NULL
Basic	decimal(6,0)	YES		NULL
Designation	varchar(10)	YES		NULL
Age	int	YES		NULL

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.

- = • CREATE TABLE EMP-trainee (
   
EMP\_id INT,
   
Name VARCHAR(15),
   
Basic DECIMAL(6,0),
   
Designation VARCHAR(10),
   
Age INT,
   
);
- DESC EMP-trainee;

Field	Type	Null	Key	Default.
EMP-id	int	YES		NULL
Name	varchar(15)	YES		NULL
Basic	decimal(6,0)	YES		NULL
Designation	varchar(10)	YES		NULL
Age	int	YES		NULL

⑤ Insert following data in EMP1 table:

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

= ● INSERT INTO EMPI

(ID, Name, Basic, Designation, Age)

VALUES

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

● SELECT \* FROM EMPI;

ID	Name	Basic	Designation	Age
1	Rohit	6700	Manager	24
2	Sunil	6200	Engineer	27

3	Payel	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.

- INSERT INTO EMP-trainee (EMP\_id, Name, Basic, Designation, Age)  
 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 - varchar 2 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.

- ALTER TABLE EMP1  
 Add (Skills VARCHAR(10), DOJ DATE);
- UPDATE EMP1  
 SET Skills = "SQL", DOJ = "2022-01-10"  
 WHERE ID = 1;
- UPDATE EMP1  
 SET Skills = "Java", DOJ = "2022-02-15"  
 WHERE ID = 2;

- UPDATE EMP1  
SET skills = "C++", DOJ = "2022-03-05"  
WHERE ID = 3;
- UPDATE EMP1  
SET skills = "Python", DOJ = "2022-04-20"  
WHERE ID = 4;
- UPDATE EMP1  
SET skills = "Oracle", DOJ = "2022-05-12"  
WHERE ID = 5;
- UPDATE EMP1  
SET skills = "PHP", DOJ = "2022-06-01"  
WHERE ID = 6;
- SELECT \* FROM EMP1;

ID	Name	Basic	Designation	Age	Skills	DOJ
1	Rohit	6700	Manager	24	SQL	2022-01-10
2	Sunil	6200	Engineer	27	Java	2022-02-15
3	Piyal	6300	Engineer	25	C++	2022-03-05
4	Kunal	6700	Trainee	28	Python	2022-04-20
5	Sunita	6230	Trainee	26	Oracle	2022-05-12
6	Bimal	7000	Trainee	25	PHP	2022-06-01

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

- UPDATE EMP1  
SET Basic = CASE  
WHEN Designation = "Engineer" THEN Basic + 500  
WHEN Designation = "Trainee" THEN Basic + 300  
END  
WHERE Designation IN ("Engineer", "Trainee");
- SELECT \* FROM EMP1;

ID	Name	Basic	Designation	Age	Skills	Designation	DOJ
1	Rohit	6700	Manager	24	SQL		2022-01-10
2	Sunil	6700	Engineer	27	Java		2022-02-15
3	Payel	6800	Engineer	25	C++		2022-03-05
4	Kunal	7000	Trainee	28	Python		2022-04-20
5	Sunita	6530	Trainee	26	Oracle		2022-05-12
6	Bimal	7300	Trainee	25	PHP		2022-06-01

⑨ Rename the column Age of EMP1 table to Age-in-Years.

= • ALTER TABLE EMP1

RENAME COLUMN Age TO Age-in-Years;

ID	Name	Basic	Designation	Age-in-Years	Skills	Designation	DOJ
1	Rohit	6700	Manager	24	SQL		2022-01-10
2	Sunil	6700	Engineer	27	Java		2022-02-15
3	Payel	6800	Engineer	25	C++		2022-03-05
4	Kunal	7000	Trainee	28	Python		2022-04-20
5	Sunita	6530	Trainee	26	Oracle		2022-05-12
6	Bimal	7300	Trainee	25	PHP		2022-06-01

⑩ Drop the Age column from the EMP-Trainee table.

= • ALTER TABLE EMP\_Trainee

DROP COLUMN Age;

• SELECT \* FROM EMP\_Trainee;

EMP-ID	Name	Basic	Designation
4	Kunal	6700	Trainee
5	Sunita	6230	Trainee
6	Bimal	7000	Trainee

⑪ Rename the table EMP TO EMP\_Mgr - Engr.

= • CREATE TABLE EMP AS

SELECT \*

FROM EMPI

WHERE Designation IN ("Manager", "Engineer");

ID	Name	Basic	Designation	Age-in-Years	Skills	DOJ
1	Rohit	6700	Manager	24	SQL	2022-01-10
2	Sunil	6700	Engineer	27	Java	2022-02-15
3	Piyal	6800	Engineer	25	C++	2022-03-05

• ALTER TABLE EMP RENAME TO EMP\_Mgr - Engr;

⑫ Truncate EMP\_Mgr - Engr table.

= • TRUNCATE TABLE EMP\_Mgr - Engr;

• SELECT \* FROM EMP\_Mgr - Engr

ID	Name	Basic	Designation	Age-in-Years	Skills	DOJ

✓  
A.S. 25/08/23