

PRACTICAL 2

AIM: Perform Data Definition Language (DDL) commands and change the existing schema as per the given information.

Constraints –

- **Not Null Constraints: Ensure critical fields are not null.**
- **Unique Constraints: Ensure data integrity by limiting column values.**
- **Check Constraints: Ensure columns like Account Number have unique values.**

DESCRIPTION:

Task1:-

```
create table supplier
as (select * from employee);
desc supplier;
rename supplier to employee1;
desc employee1;
rename employee1 to supplier;
desc supplier;
```

Task2:-

```
create table sup1
as select emp_name,emp_no from employee;
desc sup1;
```

Task 3:-

```
create table sup2
as select * from employee where 1=0;
desc sup2;
insert into sup2
select * from employee where emp_name like 'dharmik';
select * from sup2;
```

Task-4:-

```
rename sup2 to sup3;
```

Task-5:-

```
delete from sup1;
```

```
create table sup4
```

```
as select * from employee;
```

```
drop table sup4;
```

Task-6:-

```
alter table employee
```

```
add phone varchar2(10);
```

Task-7:-

```
ALTER TABLE employee
```

```
MODIFY phone char(10);
```

task 9:

```
ALTER TABLE sup4
```

```
DROP COLUMN emp_name;
```

task 10:

```
ALTER TABLE supp1
```

```
RENAME COLUMN emp_sal TO new_sal;
```

```
select * from supp1;
```

OUTPUT:

TASK 1) Create a table supplier from an employee with all the columns and verify.

Object Type TABLE Object SUPPLIER		Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>SUPPLIER</u>	<u>EMP_NO</u>	Number	-	3	0	-		✓	-	-	
	<u>EMP_NAME</u>	Varchar2	30	-	-	-		✓	-	-	
	<u>EMP_SAL</u>	Number	-	8	2	-		✓	-	-	
	<u>EMP_COMM</u>	Number	-	6	1	-		✓	-	-	
	<u>DEPT_NO</u>	Number	-	3	0	-		✓	-	-	
1 - 5											

TASK 2) Create table sup1 from an employee with the first two columns and verify.

Test case: Verify sup1 consists of first two columns of employee table.

Object Type TABLE Object SUP1		Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<u>SUP1</u>	<u>EMP_NAME</u>	Varchar2	30	-	-	-		✓	-	-	
	<u>EMP_NO</u>	Number	-	3	0	-		✓	-	-	
1 - 2											

3) Create table sup2 from employee with no data and verify.

Test case: Verify sup2 table contains no data.

```
desc sup2;
```

Results Explain Describe Saved SQL History

Object to be described could not be found.

4) Insert the data into sup2 from employee whose name is 'Anita' and verify.

Test case: Verify the details of employee whose name is 'Anita' is inserted in sup2 table.

Results	Explain	Describe				
<table><tr><th>EMP_NAME</th><th>EMP_NO</th></tr><tr><td>dharmik</td><td>13</td></tr></table>			EMP_NAME	EMP_NO	dharmik	13
EMP_NAME	EMP_NO					
dharmik	13					

5) Rename the table sup2 and verify.

Test case: Verify the sup2 table name is changed.

```
select * from sup5;
```

Results Explain Describe Saved

EMP_NAME	EMP_NO
dharmik	13

6) Destroy table sup1 with all the data and verify.

Test case: Verify table sup1 is destroyed or not.

```
select * from sup5;
```

Results Explain Describe Saved SQL History



ORA-00942: table or view does not exist

7) Add one column phone to an employee with size of column is Varchar2(10) and verify.

Test case: Verify phone column is added in employee as per the column size.

Object Type TABLE Object EMPLOYEE									
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEE	EMP_NO	Number	-	3	0	-	✓	-	-
	EMP_NAME	Varchar2	30	-	-	-	✓	-	-
	EMP_SAL	Number	-	8	2	-	✓	-	-
	EMP_COMM	Number	-	6	1	-	✓	-	-
	DEPT_NO	Number	-	3	0	-	✓	-	-
	PHONE	Varchar2	10	-	-	-	✓	-	-
									1 - 6

8) Modify column phone and change type to char(10) and verify.

Test case: Verify phone column type is changed to char(10).

Object Type **TABLE** Object **EMPLOYEE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEE	EMP_NO	Number	-	3	0	-	✓	-	-
	EMP_NAME	Varchar2	30	-	-	-	✓	-	-
	EMP_SAL	Number	-	8	2	-	✓	-	-
	EMP_COMM	Number	-	6	1	-	✓	-	-
	DEPT_NO	Number	-	3	0	-	✓	-	-
	PHONE	Char	10	-	-	-	✓	-	-
									1 - 6

9) Delete employee_name column from sup2 and verify;

Test case: Verify employee_name column is deleted from sup2.

```
ALTER TABLE sup3
DROP COLUMN emp_name;
```

Results Explain Describe Saved SQL History

ORA-12988: cannot drop column from table owned by SYS

0.00 seconds

10) Rename the column salary to new_sal in sup2 and verify.

Test case: Verify the column name of salary is changed to new_sal in sup2 table.

EMP_NO	EMP_NAME	NEW_SAL	EMP_COMM	DEPT_NO	PHONE
13	dharmik	99999	123	2	-
101	smith	800	455	20	-
102	snehal	800	0	25	-
103	adama	800	425	20	-
104	aman	800	0	15	-
105	amita	800	0	10	-
106	anamika	800	50000	30	-
106	anamika	800	50000	30	-

8 rows returned in 0.01 seconds

[CSV Export](#)

CONCLUSION:

i learn to first one table to all or some colume data in any other table . After any colume to catch any other table . Next to learn any table create but not data verify.afther to use where to use any one type of detail to use any table to use. After to learn rename any table name . Learn to delete or drop any colume or table . After use alt key word to add any colume, modify colume, drop colume , rename colume and many more.