

## EXPERIMENT NO. 3

### AIM

To familiarize DDL Commands- ALTER,DROP,TRUNCATE,RENAME

### Questions

1.Create a table emp with attributes empno number(4)as primary key, ename char(10),hiredate, salary,commission and insert the following 5 rows of data

101	Ramesh	17-Jan-1980	5000	
102	Ajay	05-Jul-1985	5000	500
103	Ravi	12-Aug-1981	1500	
104	Nikesh	03-Mar-1983	3000	700
105	Ravi	05-jul-1985	3000	

### ANSWERS

```
CREATE TABLE EMP(empno INT PRIMARY KEY,ename VARCHAR(10),hiredate DATE,salary INT,commission INT);
```

```
INSERT INTO emp(empno,ename,hiredate,salary) VALUES(101,"Ramesh","1980-01-17",5000);
```

```
INSERT INTO emp(empno,ename,hiredate,salary,commission)
```

```
VALUES(102,"Ajay","1985-07-05",5000,500);
```

```
INSERT INTO emp(empno,ename,hiredate,salary) VALUES(103,"Ravi","1981-08-12",1500);
```

```
INSERT INTO emp(empno,ename,hiredate,salary,commission)
```

```
VALUES(104,"Nikesh","1983-03-03",3000,700);
```

```
INSERT INTO emp(empno,ename,hiredate,salary) VALUES(105,"Ravi","1985-07-05",3000);
```

16 • `SELECT * FROM EMP;`  
17

	empno	ename	hiredate	salary	commission
▶	101	Ramesh	1980-01-17	5000	NULL
	102	Ajay	1985-07-05	5000	500
	103	Ravi	1981-08-12	1500	NULL
	104	Nikesh	1983-03-03	3000	700
	105	Ravi	1985-07-05	3000	NULL
✱	NULL	NULL	NULL	NULL	NULL

2. Add check constraint (Salary <=5000)

ANSWERS

`ALTER TABLE emp ADD CHECK(salary<=5000);`

✖	13	09:59:09	ALTER TABLE emp ADD CHECK(salary>=5000)	Error Code: 4025. CONSTRAINT 'CONSTRAINT_1' failed for 'ban'
✔	14	10:01:48	ALTER TABLE emp ADD CHECK(salary<=5000)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0

3. Add Check Constraint (length(empno)<=3))

Answer

`ALTER TABLE emp ADD CHECK(length(empno)<=3));`

19 • `ALTER TABLE emp ADD CHECK(length(empno<=3));`  
20

#	Time	Action	Message
✔	11	09:50:54	SELECT * FROM EMP LIMIT 0, 1000 5 row(s) returned
✖	12	09:58:55	ALTER TABLE EMP ADD CHECK(salary>=5000) Error Code: 4025. CONSTRAINT 'CONSTRAINT_1' failed for 'ban'
✖	13	09:59:09	ALTER TABLE emp ADD CHECK(salary>=5000) Error Code: 4025. CONSTRAINT 'CONSTRAINT_1' failed for 'ban'
✔	14	10:01:48	ALTER TABLE emp ADD CHECK(salary<=5000) 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
✔	15	10:08:26	ALTER TABLE emp ADD CHECK(length(empno<=3)) 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0

4. Modifying the structure of tables

a. Add new columns: sal number(7,2)

```

20 • ALTER TABLE emp ADD COLUMN SAL FLOAT(7,2);
21 • SELECT * FROM emp;
22

```

Result Grid						
Filter Rows: <input type="text"/>						
Edit:    Export/Import:   Wrap Cell Content:						
	empno	ename	hiredate	salary	commission	SAL
▶	101	Ramesh	1980-01-17	5000	NULL	NULL
	102	Ajay	1985-07-05	5000	500	NULL
	103	Ravi	1981-08-12	1500	NULL	NULL
	104	Nikesh	1983-03-03	3000	700	NULL
	105	Ravi	1985-07-05	3000	NULL	NULL
*	NULL	NULL	NULL	NULL	NULL	NULL

b. Dropping a column from a table: sal

```

22 • ALTER TABLE emp DROP COLUMN SAL;
23 • SELECT * FROM emp;
24

```

Result Grid					
Filter Rows: <input type="text"/>					
Edit:    Export/Import:   Wrap Cell Content:					
	empno	ename	hiredate	salary	commission
▶	101	Ramesh	1980-01-17	5000	NULL
	102	Ajay	1985-07-05	5000	500
	103	Ravi	1981-08-12	1500	NULL
	104	Nikesh	1983-03-03	3000	700
	105	Ravi	1985-07-05	3000	NULL
*	NULL	NULL	NULL	NULL	NULL

c. Modifying existing column :ename varchar2(15)

```

24 • ALTER TABLE emp MODIFY COLUMN ename VARCHAR(15);
25

```

Output			
Action Output			
#	Time	Action	Message
✓ 17	10:13:19	SELECT * FROM emp LIMIT 0, 1000	5 row(s) returned
✓ 18	10:16:46	ALTER TABLE emp DROP COLUMN SAL	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓ 19	10:16:56	SELECT * FROM emp LIMIT 0, 1000	5 row(s) returned
✓ 20	10:26:40	ALTER TABLE emp MODIFY COLUMN ename VARCHAR(15)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

d. Renaming the tables: emp to emp1

```

25 • ALTER TABLE emp RENAME TO emp1;
26

```

Output			
Action Output			
#	Time	Action	Message
✓ 18	10:16:46	ALTER TABLE emp DROP COLUMN SAL	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓ 19	10:16:56	SELECT * FROM emp LIMIT 0, 1000	5 row(s) returned
✓ 20	10:26:40	ALTER TABLE emp MODIFY COLUMN ename VARCHAR(15)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓ 21	10:29:31	ALTER TABLE emp RENAME TO emp1	0 row(s) affected

e.truncating the tables:emp1

```
26 • TRUNCATE TABLE emp1;
27 • SELECT * FROM emp1;
28
```

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Result Grid | Filter Rows:  | Edit: | Export/Import: | Wrap Cell Content:

	empno	ename	hiredate	salary	commission
*	NULL	NULL	NULL	NULL	NULL

f.Destroying tables:emp

```
28 • DROP TABLE emp1;
29
```

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Output : .....

Action Output ▾

#	Time	Action	Message
✓ 22	10:31:33	TRUNCATE TABLE emp1	0 row(s) affected
✗ 23	10:31:43	SELECT * FROM emp LIMIT 0, 1000	Error Code: 1146. Table 'bank.emp' doesn't exist
✓ 24	10:31:50	SELECT * FROM emp1 LIMIT 0, 1000	0 row(s) returned
✓ 25	10:32:51	DROP TABLE emp1	0 row(s) affected