

EXPERIMENT NO. 3: DDL COMMANDS and CONSTRAINTS

1. Create a table emp with attributes empno number(4) as primary key, ename char(10), hiredate, salary, commission

```
CREATE TABLE emp(empno INT(4) PRIMARY KEY, ename CHAR(10), hiredate DATE, salary INT(5), commission INT(5));
```

insert 5 rows of data

```
INSERT INTO emp VALUES(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);
```

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

2.Modifying the structure of tables

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

```
ALTER TABLE emp ADD COLUMN sal int
```

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

b. Dropping a column from a table: sal

ALTER TABLE emp DROP COLUMN sal;

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

c. Modifying existing column :ename varchar2(15)

ALTER TABLE emp MODIFY ename varchar(15);

d. Renaming the tables: emp to emp1

RENAME TABLE emp to emp1;

e. truncating the tables:emp1

TRUNCATE TABLE emp1;

f. Destroying table emp

DROP TABLE emp1;

3. Create a table stud with sname varchar2(20) primary key , rollno number(10) not null,dob date not null

CREATE TABLE stud(sname varchar(20) PRIMARY KEY, rollno int NOT NULL, dob date NOT NULL);

SELECT * FROM stud;

4.Create a table student as regno number (6), mark number (3) check constraint (mark >=0 and mark <=100));

Create table student (regno int, mark int(3) constraint b check (mark >=0 and mark <=100));

```
SELECT * from STUDENT;
```

In table student add check constraint(length(regno<=4))

Alter table student add regno check (length(regno<=4));

5.Create a table cust with(custid number(6) constraint unique, name char(10)

```
CREATE TABLE cust(custid number(6) UNIQUE, name char(10));
```