EX 1. DDL COMMANDS

1. Create a table 'Department' with the following structure (Column level constraints):

```
create table department(
    depno number(2) primary key,
    depname varchar2(15),
    deplocation varchar2(10)
);
```

Output:

```
Table created.
```

2. Create a table 'Employee' with the following structure:

```
create table employee(
    empno number(5) primary key,
    empname varchar2(20),
    designation varchar2(10),
    datejoin date NOT NULL,
    salary number(9,2),
    depno number(2) references department(depno)
);
```

Output:

```
Table created.
```

3. Create a table 'Course' with the following structure:

```
create table course(
    coursecode number(2),
    coursename varchar2(15),
    constraint pk_coursecode primary key (coursecode)
);
```

Output:

```
Table created.
```

4. Create a table 'Student' with the following structure:

```
create table student(
    rollno number(5),
    name varchar2(15),
    coursecode number(2),
    mark1 number(3),
    mark2 number(2),
    constraint pk_rollno primary key (rollno),
    constraint fk_coursecode foreign key (coursecode) references
course(coursecode),
    constraint chk_mark1 check(mark1 between 0 and 100),
    constraint chk_mark2 check(mark2 between 0 and 100)
);
```

Output:

```
Table created.
```

5. Display the structure of the tables:

```
desc department;
```

Output:

```
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------
-----
 DEPNO                                     NOT NULL NUMBER(2)
 DEPNAME                                            VARCHAR2(15)
 DEPLOCATION                                        VARCHAR2(15)
desc employee;
```

Output:

```
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------
-----
 EMPNO                                     NOT NULL NUMBER(5)
 EMPNAME                                            VARCHAR2(20)
 DESIGNATION                                        VARCHAR2(10)
 DATEJOIN                                  NOT NULL DATE
 SALARY                                             NUMBER(9,2)
 DEPNO                                              NUMBER(2)
desc course;
```

Output:

```
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------
-----
 COURSECODE                                NOT NULL NUMBER(2)
 COURSENAME                                         VARCHAR2(15)
```

6. Add columns 'phoneno' and 'grade' to 'Employee' table:

```
alter table employee add(
    phoneno number(10),
    grade varchar2(1)
);
```

Output:

```
Table altered.
```

7. Modify 'Department' table to change 'deplocation' datatype:

```
alter table department modify (deplocation varchar2(15));
```

Output:

```
Table altered.
```

8. Modify 'Student' table to change 'rollno' datatype:

```
alter table student modify (rollno varchar2(5));
```

Output:

```
Table altered.
```

9. Drop column 'mark2' from 'Student' table:

```
alter table student drop column mark2;
```

Output:

```
Table altered.
```

10. Display names of tables created by current user:

```
select * from tab;
```

Output:

```
TNAME                          TABTYPE  CLUSTERID
------------------------------ ------- ----------
COURSE                         TABLE
DEPARTMENT                     TABLE
EMP                             TABLE
```

11. Delete contents of 'Student' table:

```
truncate table student;
```

Output:

```
Table truncated.
```

12. Delete 'Student' table:

```
drop table student;
```

Output:

```
Table dropped.
```

13. Rename 'Employee' table as 'Emp':

```
rename employee to emp;
```

Output:

```
Table renamed.
```

14. Create NOT NULL constraint on 'name' column of 'Student' table:

```
alter table student modify(name NOT NULL);
```

Output:

```
Table altered.
```

15. Create default constraint on 'workloc' column of 'Employee' table:

```
alter table employee add(workloc varchar2(15) default 'tirunelveli');
```

Output:

```
Table altered.
```