

# DATABASE MANAGEMENT SYSTEM

Name: Ayush Singh

Section: K

Roll Number: 2215000456 (14)

#1 Create the following tables and specify constraints at the time of creation.

```
1 create table Department(  
2     Deptno number(3) primary key,  
3     Dname varchar2(20) unique,  
4     Location varchar2(20) not null,constraint Locationcheck check(location in('Delhi','Agra','Pune')));  
5 describe Department;
```

Table created.

TABLE DEPARTMENT

Column	Null?	Type
DEPTNO	NOT NULL	NUMBER(3,0)
DNAME	-	VARCHAR2(20)
LOCATION	NOT NULL	VARCHAR2(20)

```
6  
7 create table Employee(  
8     Empno varchar2(5) primary key check(Empno like 'E%'),  
9     Ename varchar2(20) unique,  
10    Designation varchar2(20) not null,  
11    Salary number(10,2) default 25000 check (salary between 15000 and 50000),  
12    DoB date not null,  
13    Dno number(3),  
14    constraint fk_department foreign key (Dno) references department(Deptno));  
15 describe Employee;
```

Table created.

TABLE EMPLOYEE

Column	Null?	Type
EMPNO	NOT NULL	VARCHAR2(5)
ENAME	-	VARCHAR2(20)
DESIGNATION	NOT NULL	VARCHAR2(20)
SALARY	-	NUMBER(10,2)
DOB	NOT NULL	DATE
DNO	-	NUMBER(3,0)

```
1.
2.
3. create table Candidate(
4.     Candidate_ID number(6) primary key,
5.     Candidate_Name varchar2(20) not null,
6.     Candidate_Email varchar2(30) unique check(instr(Candidate_Email, '@')>0 and instr(Candidate_Email, '.', instr(Candidate_Email, '@'))>0),
7.     Candidate_Dept varchar2(2) default 'HR',
8.     Manager_ID number(6) references Candidate(Candidate_ID));
9. describe Candidate;
```

Table created.

TABLE CANDIDATE

Column	Null?	Type
CANDIDATE_ID	NOT NULL	NUMBER(6,0)
CANDIDATE_NAME	NOT NULL	VARCHAR2(20)
CANDIDATE_EMAIL	-	VARCHAR2(30)
CANDIDATE_DEPT	-	VARCHAR2(2)
MANAGER_ID	-	NUMBER(6,0)

