Question Set Number: 2

Register Number: 19BCE2074

Name: Kulvir Singh

RDBMS: MYSQL

### **TABLE CREATION**

```
Create TABLE City(
  City_No int not null,
  City_Name varchar(255) not null,
  State varchar(255) not null,
  Country varchar(255) not null,
  Population int not null,
  Airport varchar(3) not null check (Airport="YES" or Airport = "NO"),
  Railway_Station varchar(3) not null check (Railway_Station="YES" or Railway_Station = "NO"),
  total_mayors int not null,
  PRIMARY key (City_No)
);
Create table Mayor(
  Mayor_ID varchar(5) not null check (substr(Mayor_ID,1,1)="M"),
  Mayor_Name varchar(255) not null,
  Age int not null check (Age<=100),
  Address varchar(255) not null,
  Phone int not null,
  Mayor_Start_Date Date not null,
  Mayor_End_Date Date not null,
  City int not null,
  FOREIGN key (City) REFERENCES City(City_No),
```

```
PRIMARY KEY (Mayor_ID)
);
RECORD INSERTION
insert into City values (1,"ABC","Tamilnadu","India",29987,"YES",1),
(2,"DEF","Tamilnadu","India",2873521,"YES","YES",1),
(3,"GHI","Tamilnadu","India",287351,"NO","YES",1),
(4,"XYZ","Uttar Pradesh","India",1233,"NO","YES",1),
(5,"XUV","Andhra Pradesh","India",87673,"YES","YES",1);
insert into Mayor values ("M101", "Ajay", 66, "A Block", 123456, "2018-04-22", "2019-04-22", 1),
("M102", "Bale", 46, "B Block", 133456, "2014-04-22", "2019-04-22", 2),
("M103","Carl",55,"C Block",423456,"2016-04-22","2020-04-22",3),
("M104", "Dominic", 56, "D Block", 553456, "2017-04-22", "2019-04-22", 4),
("M105", "Eugene", 36, "E Block", 553326, "2016-04-22", "2019-04-22", 5);
                          s (1,"ABC","Tamilnadu","India",29987,"YES","YES",1),(2,"DEF","Tamilnadu","India",2873521,"YES","YES",
India",287351,"NO","YES",1),(4,"XYZ","Jharkhand","India",1233,"NO","YES",1),(5,"XUV","Gujarat","India
                                             A Block",123456,"2018-04-22","2019-04-22",1),
```

City_No	City_Name	State	Country	Population	Airport	Railway_Station	total_mayors
1	ABC	Tamilnadu	India	29987	YES	YES	1
2	DEF	Tamilnadu	India	2873521	YES	YES	1
3	GHI	Tamilnadu	India	287351	NO	YES	1
4	XYZ	Uttar Pradesh	India	1233	NO	YES	1
5	XUV	Andhra Pradesh	India	87673	YES	YES	1

Mayor_ID	Mayor_Name	Age	Address	Phone	Mayor_Start_Date	Mayor_End_Date	City
M101	Ajay	66	A Block	123456	2018-04-22	2019-04-22	1
M102	Bale	46	B Block	133456	2014-04-22	2019-04-22	2
M103	Carl	55	C Block	423456	2016-04-22	2020-04-22	3
M104	Dominic	56	D Block	553456	2014-04-22	2019-04-22	4
M105	Eugene	36	E Block	553326	2016-04-22	2019-04-22	5

# **SQL QUERIES**

select count(city\_no) from City where state = "Tamilnadu";

#### b

select \* from mayor where city in (select city\_no from city where state="Uttar Pradesh") and Mayor\_Start\_Date<="2015-01-01";

```
mysql> select * from mayor where city in (select city_no from city where state="Uttar Pradesh") and Mayor_Start_Date<="2015-01-01";

| Mayor_ID | Mayor_Name | Age | Address | Phone | Mayor_Start_Date | Mayor_End_Date | City |

| M104 | Dominic | 56 | D Block | 553456 | 2014-04-22 | 2019-04-22 | 4 |

1 row in set (0.00 sec)
```

#### C

update city set Airport = "YES", Railway Station = "YES" where state = "Andhra Pradesh";

#### d

select state, count(city\_no) from city group by state;

## PL/SQL PROGRAM

ABC

1 row in set (0.00 sec)

Tamilnadu | India

29987

YES

YES

2