Name-Barsha Routh

Reg no-24MCA0164

SET-Q

USERNAME-EXAM023@SITEORA

PASWD-EXAM023

Q.

I. Consider the following relational database schema. [5 Marks]

EMPLOYEE(Emp\_id, Emp\_name, Email, Office\_code)

OFFICE(Office\_code, City, Phone, State, Country)

II. Write appropriate SQL statements for creating the above tables with necessary

primary key and foreign key. Ensure that the employee can only come from the

country India, USA, Germany, France, Italy, and Britain. [5 Marks]

## **QUERIES--**

CREATE TABLE EMPLOYEE(EMP\_ID VARCHAR(6),EMP\_NAME VARCHAR(8),EMAIL VARCHAR(15),OFC\_CODE VARCHAR(6));

CREATE TABLE OFFICE(OFC\_CODE VARCHAR(6),CITY VARCHAR(10),PHN\_NO NUMBER(10),STATE VARCHAR(10),COUNTRY VARCHAR(10));

```
SQL> SELECT * FROM EMPLOYEE;
EMP_ID EMP_NAME EMAIL
                                   OFC_CO
E101
       SACHIN sach2@gmail.com 0101
E102
       RITESH rit@gmail.com 0101
       RISHI rita@gmail.com 0102
RIKHI rkha@gmail.com 0103
BARSHA bar@gmail.com 0104
E103
E104
E105
E106
       ARTI
                 ar@gmail.com
                                   0104
6 rows selected.
SQL> SELECT * FROM OFFICE;
                        PHN NO STATE
OFC CO CITY
                                             COUNTRY
       FACHEN 9749806802 SANTO
LAUREN 9749806801 INVIS
                                             INDIA
0101
0102
                                             USA
0103
       LISTO
                   9749806800 INOX
                                             USA
0104
       CHENNAI
                    9749806812 TN
                                             INDIA
0105
                    9749806111 UNI
       CHENN
                                             BRITAIN
```

ALTER TABLE EMPLOYEE ADD CONSTRAINT pk 1 PRIMARY KEY(EMP ID);

ALTER TABLE OFFICE ADD CONSTRAINT pk\_2 PRIMARY KEY(OFC\_CODE);

ALTER TABLE EMPLOYEE ADD CONSTRAINT FK\_1 FOREIGN KEY(OFC\_CODE) REFERENCES OFFICE(OFC\_CODE) DEFERRABLE INITIALLY DEFERRED;

ALTER TABLE OFFICE ADD CONSTRAINT CHECK(COUNTRY IN (India, USA, Germany, France, Italy, Britain));

-----

- III. Implement SQL statement for the following questions. [10 Marks]
- 1. Display the employee detail whose name starts with an A.

SELECT EMP\_NAME FROM EMPLOYEE WHERE EMP\_NAME LIKE 'A%';

```
SQL> SELECT EMP_NAME FROM EMPLOYEE WHERE EMP_NAME LIKE 'A%';
EMP_NAME
-----
ARTI
```

2. Display information about all offices situated in USA.

SELECT \* FROM OFFICE WHERE COUNTRY='USA';

```
SQL> SELECT * FROM OFFICE WHERE COUNTRY='USA';

OFC_CO CITY PHN_NO STATE COUNTRY

-----
0102 LAUREN 9749806801 INVIS USA
0103 LISTO 9749806800 INOX USA
```

- 3. One of Office located in 'Chennai' is now decided to shifted its office to 'Bangalore and hence the phone number of the office is also get changed accordingly. Kindly do the necessary changes in the appropriate table.
- 4. List out how many employees' works in each company.

SELECT COUNT(EMP\_ID) FROM EMPLOYEE GROUP BY OFC\_CODE;

```
SQL> SELECT COUNT(EMP_ID) FROM EMPLOYEE GROUP BY OFC_CODE;

COUNT(EMP_ID)

1
2
1
2
```

5. Find the employee who works in the city as the employee 'Sachin' works.

SELECT SNAME FROM EMPLOYEE WHERE EMPLOYEE.OFC\_CODE=(SELECT OFC\_CODE FROM EMPLOYEE WHERE EMP\_NAME='SACHIN');

SQL>	SELECT	EMP_NAME	FROM	EMPLOYEE	WHERE	EMPLOYEE.OF	FC_CODE=(	SELECT	OFC_CODE	FROM	EMPLOYEE	WHERE	EMP_N	IAME='	SACHIN'	);
EMP_	NAME															
SACH RITE																