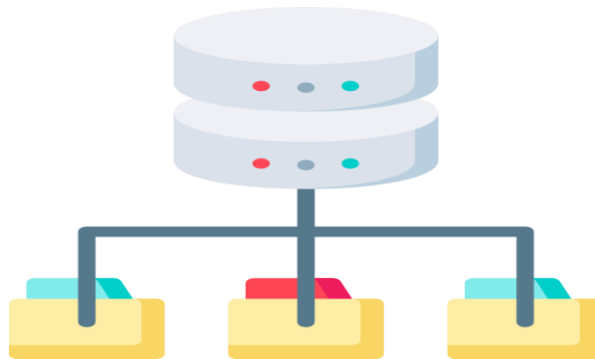




VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

LAB REPORT

CSE2004 – DATABASE MANAGEMENT SYSTEMS



(B.Tech. COMPUTER SCIENCE AND ENGINEERING)
FALL SEMESTER 2021-22

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ASSIGNMENT – 1

CREATING TABLES

QUESTION – 1 – Employee Table

Table Name: Employee

Attribute	Data Type	Constraint
First Name	Varchar (15)	Not Null
Mid Name	Char(2)	
Last Name	Varchar (15)	Not Null
SSN Number	Char (9)	Primary Key
Birthday	Date	
Address	Varchar (50)	
Sex	Char(1)	Sex In (M,F,m,f)
Salary	Number (7)	Default 800
Supervisor SSN	Char (9)	Foreign Key Employee (SSN) on delete set null
Department number	Number(5)	Foreign key to department number of department table on delete cascade

QUERY

```
-- Creating Table
CREATE TABLE employee (
  first_name VARCHAR(15) NOT NULL,
  mid_name CHAR(2),
  last_name VARCHAR(15) NOT NULL,
  ssn_number CHAR(9) PRIMARY KEY,
  birthday DATE,
  address VARCHAR(50),
  sex CHAR(1),
  CHECK(sex IN ('m', 'f', 'M', 'F')),
  salary NUMBER(7) DEFAULT 800,
  supervisor_ssn CHAR(9),
  department_number NUMBER(5)
);

-- Adding foreign key
ALTER TABLE employee
ADD CONSTRAINT con_fk_ssn FOREIGN KEY(supervisor_ssn) REFERENCES employee (ssn_number) ON DELETE
SET NULL;

-- Adding foreign key need to be run after creatin of department table
ALTER TABLE employee
```

```
ADD CONSTRAINT con_fk_dept FOREIGN KEY(department_number) REFERENCES department(department_number) ON DELETE CASCADE;
```

RESULT

```
SQL> CREATE TABLE employee (  
2     first_name VARCHAR(15) NOT NULL,  
3     mid_name CHAR(2),  
4     last_name VARCHAR(15) NOT NULL,  
5     ssn_number CHAR(9) PRIMARY KEY,  
6     birthday DATE,  
7     address VARCHAR(50),  
8     sex CHAR(1),  
9     CHECK(sex IN ('m', 'f', 'M', 'F')),  
10    salary NUMBER(7) DEFAULT 800,  
11    supervisor_ssn CHAR(9),  
12    department_number NUMBER(5)  
13 );  
  
Table created.  
  
SQL> ALTER TABLE employee  
2 ADD CONSTRAINT con_fk_ssn FOREIGN KEY(supervisor_ssn) REFERENCES employee (ssn_number) ON DELETE  
3 SET NULL;  
  
Table altered.
```

THIS QUERY IS TO BE RUNNED AFTER CREATING DEPARTMENT TABLE.

```
SQL> ALTER TABLE employee  
2 ADD CONSTRAINT con_fk_dept FOREIGN KEY(department_number) REFERENCES department(department_number) ON DELETE CASCADE;  
  
Table altered.
```

QUESTION – 2 – Department Table

Table Name : Department

Attribute	Data type	Constraint
Department Name	Varchar(15)	Not Null
Department number	Number(5)	Primary key
Manager SSN	Char (9)	Foreign key-Employee (SSN) on delete set null
Manage start date	Date	

QUERY

```
-- Creating Table  
CREATE TABLE department (  
    department_name VARCHAR(15) NOT NULL,  
    department_number NUMBER(5) PRIMARY KEY,  
    manager_ssn CHAR(9),  
    manage_start_date DATE,  
    CONSTRAINT manager_ssn_fk FOREIGN KEY(manager_ssn) REFERENCES employee(ssn_number) ON DELETE  
    SET NULL  
);
```

RESULT

```
SQL> CREATE TABLE department (  
2     department_name VARCHAR(15) NOT NULL,  
3     department_number NUMBER(5) PRIMARY KEY,  
4     manager_ssn CHAR(9),  
5     manage_start_date DATE,  
6     CONSTRAINT manager_ssn_fk FOREIGN KEY(manager_ssn) REFERENCES employee(ssn_number) ON DELETE  
7     SET NULL  
8 );  
  
Table created.
```

QUESTION – 3 – Dept Locations Table

Table Name : Dept_locations

Attribute	Data type	Constraint
Department Number	Number(5)	Department (dep no) on delete cascade
Department Location	Varchar (15)	

QUERY

```
-- Creating Table  
CREATE TABLE dept_locations(  
    department_number NUMBER(5),  
    department_location VARCHAR(15),  
    CONSTRAINT deptno_fk FOREIGN KEY(department_number) REFERENCES department(  
department_number) ON DELETE CASCADE  
);
```

RESULT

```
SQL> CREATE TABLE dept_locations(  
2     department_number NUMBER(5),  
3     department_location VARCHAR(15),  
4     CONSTRAINT deptno_fk FOREIGN KEY(department_number) REFERENCES department(department_number) ON DELETE CASCADE  
5 );  
  
Table created.
```

QUESTION – 4 – Project Table

Table Name: Project

Attribute	Data type	Constraint
Project Name	Varchar2(15)	Not Null
Project number	Number(5)	Primary key
Project Location	Varchar2(50)	

Department Number	Number(5)	Foreign Key –Department (dep no) on delete set null
-------------------	-----------	--

QUERY

```
-- Creating Table
CREATE TABLE project(
  project_name VARCHAR2(15) NOT NULL,
  project_number NUMBER(5) PRIMARY KEY,
  project_location VARCHAR2(50),
  department_number NUMBER(5),
  CONSTRAINT deptnum_fk FOREIGN KEY(department_number) REFERENCES department
(department_number) ON DELETE
  SET NULL
);
```

RESULT

```
SQL> CREATE TABLE project(
2   project_name VARCHAR2(15) NOT NULL,
3   project_number NUMBER(5) PRIMARY KEY,
4   project_location VARCHAR2(50),
5   department_number NUMBER(5),
6   CONSTRAINT deptnum_fk FOREIGN KEY(department_number) REFERENCES department(department_number) ON DELETE
7   SET NULL
8 );

Table created.
```

QUESTION – 5 – Works On Table

Table Name: Works_On

The combination of Employee SSN and Project Number must be a Primary Key

Attribute	Data type	Constraint
Employee SSN	Char (9)	Foreign Key Employee (SSN) on delete cascade
Project number	INT(5)	Foreign Key project (Pnumber) on delete cascade
Hours	Decimal (3,1)	Not null

QUERY

```
-- Creating Table
CREATE TABLE works_on(
  employee_ssn CHAR(9),
  project_number NUMBER(5),
  hours NUMBER(3, 1) NOT NULL,
  PRIMARY KEY(employee_ssn, project_number),
  CONSTRAINT empssn_fk FOREIGN KEY(employee_ssn) REFERENCES employee(ssn_num
ber) ON DELETE CASCADE,
  CONSTRAINT projectno_fk FOREIGN KEY(project_number) REFERENCES project(pro
ject_number) ON DELETE CASCADE
);
```

RESULT

```
SQL> CREATE TABLE works_on(  
2     employee_ssn CHAR(9),  
3     project_number NUMBER(5),  
4     hours NUMBER(3, 1) NOT NULL,  
5     PRIMARY KEY(employee_ssn, project_number),  
6     CONSTRAINT empssn_fk FOREIGN KEY(employee_ssn) REFERENCES employee(ssn_number) ON DELETE CASCADE,  
7     CONSTRAINT projectno_fk FOREIGN KEY(project_number) REFERENCES project(project_number) ON DELETE CASCADE  
8 );  
  
Table created.
```

QUESTION – 6 – Dependent Table

Name: Dependent

The combination of Employee SSN and Dependent Name must be a Primary Key.

Attribute	Datatype	Constraint
Employee	Char (9)	Foreign Key- Employee (SSN) on delete cascade
Dependent Name	Varchar(15)	
Sex	Char(1)	Check Sex in (M,F,m,f)
Birthday	Date	
Relationship	Varchar(8)	

QUERY

```
-- Creating Table  
CREATE TABLE dependent(  
    employee CHAR(9),  
    dependent_name VARCHAR(15),  
    sex CHAR(1),  
    birthday DATE,  
    relationship VARCHAR(8),  
    CONSTRAINT emp_fk FOREIGN KEY(employee) REFERENCES employee(ssn_number) ON  
    DELETE CASCADE  
);
```

RESULT

```
SQL> CREATE TABLE dependent(  
2     employee CHAR(9),  
3     dependent_name VARCHAR(15),  
4     sex CHAR(1),  
5     birthday DATE,  
6     relationship VARCHAR(8),  
7     CONSTRAINT emp_fk FOREIGN KEY(employee) REFERENCES employee(ssn_number) ON DELETE CASCADE  
8 );  
  
Table created.
```

INSERTING VALUES IN TABLE

QUESTION – 1 – Employee Table

Data For Employee Table

FName	Mini t	LName	SSN	BDate	Address	Sex	Salary	SuperSSN	DepNo
Doug	E	Gilbert	554433221	09-JUN-60	11 S 59 E, Salt Lake City, UT	M	80000	NULL	3
Joyce		PAN	543216789	07-FEB-78	35 S 18 E, Salt Lake City, UT	F	70000	NULL	2
Frankin	T	Wong	333445555	08-DEC-45	638 Voss, Houston, TX	M	40000	554433221	5
Jennifer	S	Wallace	987654321	20-JUN-31	291 Berry, Bellaire, TX	F	43000	554433221	4
Johny	B	Smith	123456789	09-JAN-55	731 Fondren, Houston, TX	M	30000	333445555	5
Ramesh	K	Narayan	666884444	15-SEP-52	975 Fire Oak, Humble, TX	M	38000	333445555	5
Joyce	A	English	453453453	31-JUL-62	5631 Rice, Houston, TX	F	25000	333445555	5
James	E	Borg	888665555	10-NOV-27	450 Stone, Houston, TX	M	55000	543216789	1
Alicia	J	Zelaya	999887777	19-JUL-58	3321 Castle, Spring, TX	F	25000	987654321	4
Ahmad	V	Jabbar	987987987	29-MAR-59	980 Dallas, Houston, TX	M	25000	987654321	4

QUERY

```
-- Inserting Values
INSERT INTO employee
VALUES (
    'Doug',
    'E',
    'Gilbert',
    '554433221',
    '09-JUN-60',
    '11 S 59 E, Salt Lake City, UT',
    'M',
    80000,
    NULL,
    NULL
);

INSERT INTO employee
VALUES (
    'Joyce',
    '',
    'PAN',
    '543216789',
    '07-FEB-78',
    '35 S 18 E, Salt Lake City, UT',
    'F',
    70000,
    NULL,
    NULL
);
```

```
        'F',
        70000,
        NULL,
        NULL
    );

INSERT INTO employee
VALUES (
    'Frankin',
    'T',
    'Wong',
    '333445555',
    '08-DEC-45',
    '638 Voss,Houston, TX',
    'M',
    40000,
    554433221,
    NULL
);

INSERT INTO employee
VALUES (
    'Jennifer',
    'S',
    'Wallace',
    '987654321',
    '20-JUN-31',
    '291 Berry, Bellaire, TX',
    'F',
    43000,
    554433221,
    NULL
);

INSERT INTO employee
VALUES (
    'Johnny',
    'B',
    'Smith',
    '123456789',
    '09-JAN-55',
    '731 Fondren,Houston, TX',
    'M',
    30000,
    333445555,
    NULL
);
```



```
INSERT INTO employee
VALUES (
    'Ramesh',
    'K',
    'Narayan',
    '666884444',
    '15-SEP-52',
    '975 Fire Oak,Humble, TX',
    'M',
    38000,
    333445555,
    NULL
);
```

```
INSERT INTO employee
VALUES (
    'Joyce',
    'A',
    'English',
    '453453453',
    '31-JUL-62',
    '5631 Rice,Houston, TX',
    'F',
    25000,
    333445555,
    NULL
);
```

```
INSERT INTO employee
VALUES (
    'James',
    'E',
    'Borg',
    '888665555',
    '10-NOV-27',
    '450 Stone,Houston, TX',
    'M',
    55000,
    543216789,
    NULL
);
```

```
INSERT INTO employee
VALUES (
    'Alicia',
    'J',
    'Zelaya',
    '999887777',
```

```

        '19-JUL-58',
        '3321 Castle, Spring, TX',
        'F',
        25000,
        987654321,
        NULL
    );

INSERT INTO employee
VALUES (
    'Ahmad',
    'V',
    'Jabbar',
    '987987987',
    '29-MAR 59',
    '980 Dallas, Houston, TX',
    'M',
    25000,
    987654321,
    NULL
);

-- Altering table, this to be run after entering values in department table.
UPDATE employee SET department_number = 3 WHERE SSN_Number = '554433221';
UPDATE employee SET department_number = 2 WHERE SSN_Number = '543216789';
UPDATE employee SET department_number = 5 WHERE SSN_Number = '333445555';
UPDATE employee SET department_number = 4 WHERE SSN_Number = '987654321';
UPDATE employee SET department_number = 5 WHERE SSN_Number = '123456789';
UPDATE employee SET department_number = 5 WHERE SSN_Number = '666884444';
UPDATE employee SET department_number = 5 WHERE SSN_Number = '453453453';
UPDATE employee SET department_number = 1 WHERE SSN_Number = '888665555';
UPDATE employee SET department_number = 4 WHERE SSN_Number = '999887777';
UPDATE employee SET department_number = 4 WHERE SSN_Number = '987987987';

```

RESULT

```
SQL> INSERT INTO employee
  2  VALUES (
  3      'Doug',
  4      'E',
  5      'Gilbert',
  6      '554433221',
  7      '09-JUN-60',
  8      '11 S 59 E, Salt Lake City, UT',
  9      'M',
 10      80000,
 11      NULL,
 12      NULL
 13  );
```

1 row created.

```
SQL>
SQL> INSERT INTO employee
  2  VALUES (
  3      'Joyce',
  4      ' ',
  5      'PAN',
  6      '543216789',
  7      '07-FEB-78',
  8      '35 S 18 E, Salt Lake City, UT',
  9      'F',
 10      70000,
 11      NULL,
 12      NULL
 13  );
```

1 row created.

```
SQL>
SQL> INSERT INTO employee
  2  VALUES (
  3      'Frankin',
  4      'T',
  5      'Wong',
  6      '333445555',
  7      '08-DEC-45',
  8      '638 Voss,Houston, TX',
  9      'M',
 10      40000,
 11      554433221,
 12      NULL
 13  );
```

1 row created.

```
SQL> INSERT INTO employee
  2  VALUES (
  3      'Jennifer',
  4      'S',
  5      'Wallace',
  6      '987654321',
  7      '20-JUN-31',
  8      '291 Berry, Bellaire, TX',
  9      'F',
10      43000,
11      554433221,
12      NULL
13  );
```

1 row created.

```
SQL>
SQL> INSERT INTO employee
  2  VALUES (
  3      'Johnny',
  4      'B',
  5      'Smith',
  6      '123456789',
  7      '09-JAN-55',
  8      '731 Fondren,Houston, TX',
  9      'M',
10      30000,
11      333445555,
12      NULL
13  );
```

1 row created.

```
SQL>
SQL> INSERT INTO employee
  2  VALUES (
  3      'Ramesh',
  4      'K',
  5      'Narayan',
  6      '666884444',
  7      '15-SEP-52',
  8      '975 Fire Oak,Humble, TX',
  9      'M',
10      38000,
11      333445555,
12      NULL
13  );
```

1 row created.

```
SQL> INSERT INTO employee
  2  VALUES (
  3      'Joyce',
  4      'A',
  5      'English',
  6      '453453453',
  7      '31-JUL-62',
  8      '5631 Rice,Houston, TX',
  9      'F',
10      25000,
11      333445555,
12      NULL
13  );
```

1 row created.

```
SQL>
SQL> INSERT INTO employee
  2  VALUES (
  3      'James',
  4      'E',
  5      'Borg',
  6      '888665555',
  7      '10-NOV-27',
  8      '450 Stone,Houston, TX',
  9      'M',
10      55000,
11      543216789,
12      NULL
13  );
```

1 row created.

```
SQL>
SQL> INSERT INTO employee
  2  VALUES (
  3      'Alicia',
  4      'J',
  5      'Zelaya',
  6      '999887777',
  7      '19-JUL-58',
  8      '3321 Castle,Spring, TX',
  9      'F',
10      25000,
11      987654321,
12      NULL
13  );
```

1 row created.█

```
SQL> INSERT INTO employee
  2  VALUES (
  3      'Ahmad',
  4      'V',
  5      'Jabbar',
  6      '987987987',
  7      '29-MAR 59',
  8      '980 Dallas,Houston, TX',
  9      'M',
 10      25000,
 11      987654321,
 12      NULL
 13  );

1 row created.
```

THIS QUERY HAS TO RUN AFTER INSERTING VALUES IN DEPARTMENT TABLE

```
SQL> UPDATE employee SET department_number = 3 WHERE SSN_Number = '554433221';

1 row updated.

SQL> UPDATE employee SET department_number = 2 WHERE SSN_Number = '543216789';

1 row updated.

SQL> UPDATE employee SET department_number = 5 WHERE SSN_Number = '333445555';

1 row updated.

SQL> UPDATE employee SET department_number = 4 WHERE SSN_Number = '987654321';

1 row updated.

SQL> UPDATE employee SET department_number = 5 WHERE SSN_Number = '123456789';

1 row updated.

SQL> UPDATE employee SET department_number = 5 WHERE SSN_Number = '666884444';

1 row updated.

SQL> UPDATE employee SET department_number = 5 WHERE SSN_Number = '453453453';

1 row updated.

SQL> UPDATE employee SET department_number = 1 WHERE SSN_Number = '888665555';

1 row updated.

SQL> UPDATE employee SET department_number = 4 WHERE SSN_Number = '999887777';

1 row updated.

SQL> UPDATE employee SET department_number = 4 WHERE SSN_Number = '987987987';

1 row updated.
```

QUESTION – 2 – Department Table

Data For Department table

DName	DepNo	MgrSSN	MgrStartDate
Manufacture	1	888665555	19-JUN-71
Administration	2	543216789	04-JAN-99
Headquarter	3	554433221	22-SEP-55
Finance	4	987654321	01-JAN-85
Research	5	333445555	22-MAY-78

QUERY

```
-- Inserting values
INSERT INTO department VALUES ('Manufacture', 1, '888665555', '19-JUN-71');
INSERT INTO department VALUES ('Administration', 2, '543216789', '04-JAN-99');
INSERT INTO department VALUES ('Headquarter', 3, '554433221', '22-SEP-55');
INSERT INTO department VALUES ('Finance', 4, '987654321', '01-JAN-85');
INSERT INTO department VALUES ('Research', 5, '333445555', '22-MAY-78');
```

RESULT

```
SQL> INSERT INTO department VALUES ('Manufacture', 1, '888665555', '19-JUN-71');
1 row created.

SQL> INSERT INTO department VALUES ('Administration', 2, '543216789', '04-JAN-99');
1 row created.

SQL> INSERT INTO department VALUES ('Headquarter', 3, '554433221', '22-SEP-55');
1 row created.

SQL> INSERT INTO department VALUES ('Finance', 4, '987654321', '01-JAN-85');
1 row created.

SQL> INSERT INTO department VALUES ('Research', 5, '333445555', '22-MAY-78');
1 row created.
```

QUESTION – 3 – Dept Locations Table

Data for table - Dept_Locations

Dep No	D Location
1	Houston
1	Chicago
2	New York
2	San Francisco
3	Salt Lake City
4	Stafford
4	Bellaire
5	Sugarland
5	Houston

QUERY

```
-- Inserting Values
INSERT INTO dept_locations VALUES (1, 'Houston');
INSERT INTO dept_locations VALUES (1, 'Chicago');
INSERT INTO dept_locations VALUES (2, 'New York');
INSERT INTO dept_locations VALUES (2, 'San Francisco');
INSERT INTO dept_locations VALUES (3, 'Salt Lake City');
INSERT INTO dept_locations VALUES (4, 'Stafford');
INSERT INTO dept_locations VALUES (4, 'Bellaire');
INSERT INTO dept_locations VALUES (5, 'Sugarland');
INSERT INTO dept_locations VALUES (5, 'Houston');
```


RESULT

```
SQL> INSERT INTO dept_locations VALUES (1, 'Houston');
1 row created.

SQL> INSERT INTO dept_locations VALUES (1, 'Chicago');
1 row created.

SQL> INSERT INTO dept_locations VALUES (2, 'New York');
1 row created.

SQL> INSERT INTO dept_locations VALUES (2, 'San Francisco');
1 row created.

SQL> INSERT INTO dept_locations VALUES (3, 'Salt Lake City');
1 row created.

SQL> INSERT INTO dept_locations VALUES (4, 'Stafford');
1 row created.

SQL> INSERT INTO dept_locations VALUES (4, 'Bellaire');
1 row created.

SQL> INSERT INTO dept_locations VALUES (5, 'Sugarland');
1 row created.

SQL> INSERT INTO dept_locations VALUES (5, 'Houston');
1 row created.
```

QUESTION – 4 – Project Table

Data For Project

PName	PNumber	Plocation	DepNo
ProjectA	3388	Houston	1
ProjectB	1945	Salt Lake City	3
ProjectC	6688	Houston	5
ProjectD	2423	Bellaire	4
ProjectE	7745	Sugarland	5
ProjectF	1566	Salt Lake City	3
ProjectG	1234	New York	2
ProjectH	3467	Stafford	4
ProjectI	4345	Chicago	1
ProjectJ	2212	San Francisco	2

QUERY

```
-- Inserting Values
INSERT INTO project VALUES ('projectA', 3388, 'Houston', 1);
INSERT INTO project VALUES ('projectB', 1945, 'Salt Lake City', 3);
INSERT INTO project VALUES ('projectC', 6688, 'Houston', 5);
INSERT INTO project VALUES ('projectD', 2423, 'Bellaire', 4);
INSERT INTO project VALUES ('projectE', 7745, 'Sugarland', 5);
INSERT INTO project VALUES ('projectF', 1566, 'Salt Lake City', 3);
INSERT INTO project VALUES ('projectG', 1234, 'New York', 2);
INSERT INTO project VALUES ('projectH', 3467, 'Stafford', 4);
INSERT INTO project VALUES ('projectI', 4345, 'Chicago', 1);
INSERT INTO project VALUES ('projectJ', 2212, 'San Francisco', 2);
```

RESULT

```
SQL> INSERT INTO project VALUES ('projectA', 3388, 'Houston', 1);
1 row created.

SQL> INSERT INTO project VALUES ('projectB', 1945, 'Salt Lake City', 3);
1 row created.

SQL> INSERT INTO project VALUES ('projectC', 6688, 'Houston', 5);
1 row created.

SQL> INSERT INTO project VALUES ('projectD', 2423, 'Bellaire', 4);
1 row created.

SQL> INSERT INTO project VALUES ('projectE', 7745, 'Sugarland', 5);
1 row created.

SQL> INSERT INTO project VALUES ('projectF', 1566, 'Salt Lake City', 3);
1 row created.

SQL> INSERT INTO project VALUES ('projectG', 1234, 'New York', 2);
1 row created.

SQL> INSERT INTO project VALUES ('projectH', 3467, 'Stafford', 4);
1 row created.

SQL> INSERT INTO project VALUES ('projectI', 4345, 'Chicago', 1);
1 row created.

SQL> INSERT INTO project VALUES ('projectJ', 2212, 'San Francisco', 2);
1 row created.
```

QUESTION – 5 – Works On Table

Data for Table - Works_On

ESSN	Pno	Hours
123456789	3388	32.5
123456789	1945	7.5
666884444	3388	40.0
453453453	7745	20.0
453453453	2212	20.0
333445555	7745	10.0
333445555	6688	10.0
333445555	4345	35.0
333445555	2212	28.5
999887777	2212	11.5
543216789	2212	17.0
554433221	1945	21.5

QUERY

```
-- Inserting Values
INSERT INTO works_on VALUES (123456789,3388,32.5);
INSERT INTO works_on VALUES (123456789,1945,7.5);
INSERT INTO works_on VALUES (666884444,3388,40.0);
INSERT INTO works_on VALUES (453453453,7745,20.0);
INSERT INTO works_on VALUES (453453453,2212,20.0);
INSERT INTO works_on VALUES (333445555,7745,10.0);
INSERT INTO works_on VALUES (333445555,6688,10.0);
INSERT INTO works_on VALUES (333445555,4345,35.0);
INSERT INTO works_on VALUES (333445555,2212,28.5);
INSERT INTO works_on VALUES (999887777,2212,11.5);
INSERT INTO works_on VALUES (543216789,2212,17.0);
INSERT INTO works_on VALUES (554433221,1945,21.5);
```

RESULT

```
SQL> INSERT INTO works_on VALUES (123456789,3388,32.5);
1 row created.

SQL> INSERT INTO works_on VALUES (123456789,1945,7.5);
1 row created.

SQL> INSERT INTO works_on VALUES (666884444,3388,40.0);
1 row created.

SQL> INSERT INTO works_on VALUES (453453453,7745,20.0);
1 row created.

SQL> INSERT INTO works_on VALUES (453453453,2212,20.0);
1 row created.

SQL> INSERT INTO works_on VALUES (333445555,7745,10.0);
1 row created.

SQL> INSERT INTO works_on VALUES (333445555,6688,10.0);
1 row created.

SQL> INSERT INTO works_on VALUES (333445555,4345,35.0);
1 row created.

SQL> INSERT INTO works_on VALUES (333445555,2212,28.5);
1 row created.

SQL> INSERT INTO works_on VALUES (999887777,2212,11.5);
1 row created.

SQL> INSERT INTO works_on VALUES (543216789,2212,17.0);
1 row created.

SQL> INSERT INTO works_on VALUES (554433221,1945,21.5);
1 row created.
```

QUESTION – 6 – Dependent Table

Data for Table - Dependent

ESSN	Dependent_name	Sex	Bdate	Relationship
333445555	Alice	F	05-Apr-76	Daughter
333445555	Theodore	M	25-Oct-73	Son
333445555	Joy	F	03-May-48	Spouse
987654321	Abner	M	29-Feb-32	Spouse
123456789	Alice	F	31-Dec-78	Daughter
123456789	Elizabeth	F	05-may-57	Spouse

QUERY

```
-- Inserting Values
INSERT INTO dependent VALUES (333445555, 'Alice', 'F', '05-Apr-76', 'Daughter');
INSERT INTO dependent VALUES (333445555, 'Theodore', 'M', '25-Oct-73', 'Son');
INSERT INTO dependent VALUES (333445555, 'Joy', 'F', '03-May-48', 'Spouse');
INSERT INTO dependent VALUES (987654321, 'Abner', 'M', '29-Feb-32', 'Spouse');
INSERT INTO dependent VALUES (123456789, 'Alice', 'F', '31-Dec-78', 'Daughter');
INSERT INTO dependent VALUES (123456789, 'Elizabeth', 'F', '05-may-57', 'Spouse');
```

RESULT

```
SQL> INSERT INTO dependent VALUES (333445555, 'Alice', 'F', '05-Apr-76', 'Daughter');
1 row created.

SQL> INSERT INTO dependent VALUES (333445555, 'Theodore', 'M', '25-Oct-73', 'Son');
1 row created.

SQL> INSERT INTO dependent VALUES (333445555, 'Joy', 'F', '03-May-48', 'Spouse');
1 row created.

SQL> INSERT INTO dependent VALUES (987654321, 'Abner', 'M', '29-Feb-32', 'Spouse');
1 row created.

SQL> INSERT INTO dependent VALUES (123456789, 'Alice', 'F', '31-Dec-78', 'Daughter');
1 row created.

SQL> INSERT INTO dependent VALUES (123456789, 'Elizabeth', 'F', '05-may-57', 'Spouse');
1 row created.
```