1:-

For Department table:

Create table Department

(D\_ID number (4), D\_Name varchar2(20),CONSTRAINT pk11 PRIMARY KEY (D\_ID));

CREATE SEQUENCE Department\_D\_ID

INCREMENT BY 1

START WITH 1;

INSERT INTO Department (D\_ID, D\_Name) VALUES

(Department\_D\_ID.NEXTVAL, 'CS');

INSERT INTO Department (D\_ID, D\_Name) VALUES

(Department\_D\_ID.NEXTVAL, 'EEE');

INSERT INTO Department (D\_ID, D\_Name) VALUES

(Department\_D\_ID.NEXTVAL, 'BBA');

INSERT INTO Department (D\_ID, D\_Name) VALUES

(Department\_D\_ID.NEXTVAL, 'LAW');

INSERT INTO Department (D\_ID, D\_Name) VALUES

(Department\_D\_ID.NEXTVAL, 'ENGLISH');

CREATE INDEX Department\_Dname\_idx

ON Department (D\_Name);

CREATE SYNONYM Dept

FOR Department;

For teacher table:

Create table Teacher

(T\_ID number (4), T\_Name varchar2(20),Skill varchar2(20),D\_ID number (4),

CONSTRAINT pk22 PRIMARY KEY (T\_ID),

CONSTRAINT fK22 FOREIGN KEY (D\_ID) REFERENCES Department (D\_ID));

CREATE SEQUENCE Teacher\_T\_ID

INCREMENT BY 11

START WITH 11;

INSERT INTO Teacher(T\_ID,T\_Name,Skill,D\_ID) VALUES

(Teacher\_T\_ID.NEXTVAL,'Sam','C','1');

INSERT INTO Teacher(T\_ID,T\_Name,Skill,D\_ID) VALUES

(Teacher\_T\_ID.NEXTVAL,'Sheldon','Finance','2');

INSERT INTO Teacher(T\_ID,T\_Name,Skill,D\_ID) VALUES

(Teacher\_T\_ID.NEXTVAL,'Oliver','Circuits','3');

INSERT INTO Teacher(T\_ID,T\_Name,Skill,D\_ID) VALUES

(Teacher\_T\_ID.NEXTVAL,'Emma','Criminology','4');

INSERT INTO Teacher(T\_ID,T\_Name,Skill,D\_ID) VALUES

(Teacher\_T\_ID.NEXTVAL,'Harry','Poetry','5');

CREATE INDEX Teacher\_Tname\_idx

ON Teacher(T\_Name);

CREATE SYNONYM Teachr

FOR Teacher;

2:-

CREATE USER Sam

IDENTIFIED BY dean;

CREATE ROLE Director;

GRANT CREATE SESSION,CREATE TABLE,CREATE SEQUENCE,CREATE VIEW,CREATE PROCEDURE

TO Director;

GRANT Director to Sam;

CREATE USER Sheldon

IDENTIFIED BY amy;

CREATE ROLE Head;

GRANT update,select

ON teacher

TO Sheldon, Head;

GRANT update,select

ON Department

TO Sheldon, Head;

CREATE USER Oliver

IDENTIFIED BY twist;

CREATE USER Emma

IDENTIFIED BY henry;

CREATE USER Harry

IDENTIFIED BY ginny;

CREATE ROLE Teacher;

GRANT Teacher to Oliver, Emma ,Harry ;

GRANT select

ON teacher

TO Teacher;

GRANT select

ON Department

TO Teacher;

3:-

CREATE VIEW empdept\_vu

AS SELECT e.ename,d.dname

FROM emp e, dept d

WHERE e.deptno = d.deptno

GROUP BY e.ename;