

1. -- Drop tables if they exist
drop table GraderReport cascade constraints.
drop table Student cascade constraints.

-- Create Student table
create table Student (
 Name varchar2(40),
 studentNo number(10),
 major char(4),
 primary key (studentNo)
);

-- Create GradeReport table
create table GradeReport (
 StudentNo number(10),
 sectionID number(6),
 Grade char(1),
 primary key (StudentNo, sectionID),
 foreign key (StudentNo) references Student(studentNo)
);

2. --Inserting rows into the Student table
insert into Student (Name, studentNo, major) values ('Brandon Sperry', 1256823, 'CS');
insert into Student (Name, studentNo, major) values ('Mark Jones', 1589509, 'Math');
insert into Student (Name, studentNo, major) values ('Janet Lee', 0569432, 'Biol');

--Inserting rows into GradeReport table
insert into GradeReport (StudentNo, sectionId, Grade) values (1256823, 10024 'A');
insert into GradeReport (StudentNo, sectionId, Grade) values (1589509, 10025 'C');
insert into GradeReport (StudentNo, sectionId, Grade) values (0569432, 236 'B');

3.
 (a)
 --Drop DEPT table if it exists
 Drop table DEPT cascade constraints;

--Create DEPT table
create table DEPT(
 DNUMBER number(2),
 Dname varchar2(30),
 primary key (DNUMBER)
);

```

--Drop EMP table if it exists
drop table EMP cascade constraints;

--Create EMP table
create table EMP (
    EID number(4) primary key,
    DNO number(2),
    AGE integer check(AGE >= 18),
    foreign key (DNO) references DEPT(DNUMBER)
);

```

```

--Insert data into DEPT table
insert into DEPT values (1, 'SALES');
insert into DEPT values (2, 'MARKETING');

```

```

--Insert data into EMP table
insert into EMP values (1111, 1, 27);
insert into EMP values (2222, 1, 54);
insert into EMP values (3333, 2, 30);

```

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(b)
SELECT *
FROM EMP;

```

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(c)
Insert into EMP values (2222, 1, 54);
Insert into EMP values (4444, 4, 54);
Insert into EMP values (5555, 1, 0);

```

4.

```

(a)
--Drop DEPT table if it exists
Drop table DEPT cascade constraints;

```

```

--Create DEPT table
create table DEPT(
    DNUMBER number(2),
    Dname varchar2(30),
);

```

```

--Drop EMP table if it exists
drop table EMP cascade constraints;

```

```

--Create EMP table
create table EMP (

```

```
        EID number(4),
        DNO number(2),
        AGE integer
    );
```

```
--Insert data into DEPT table
insert into DEPT values (1, 'SALES');
insert into DEPT values (2, 'MARKETING');
```

```
--Insert data into EMP table
insert into EMP values (1111, 1, 27);
insert into EMP values (2222, 1, 54);
insert into EMP values (3333, 2, 30);
```

(b)

```
Insert into EMP values (2222, 1, 54);
Insert into EMP values (4444, 4, 54);
Insert into EMP values (5555, 1, 0);
```