1. Database descriptions:

**Note:** A particular SQL system may restrict the length of column names or may not permit embedded spaces in names. The following answer may not be acceptable to the SQL system you use, but you may modify the grammar accordingly.

CREATE TABLE Student\_T

(StudentID NUMBER NOT NULL,

StudentName VARCHAR2(25),

CONSTRAINT Student\_PK PRIMARY KEY (StudentID));

CREATE TABLE Faculty\_T

(FacultyID NUMBER NOT NULL,

FacultyName VARCHAR2(25),

CONSTRAINT Faculty\_PK PRIMARY KEY (FacultyID));

CREATE TABLE Course\_T

(CourseID CHAR(8) NOT NULL,

CourseName VARCHAR2(15),

CONSTRAINT Course\_PK PRIMARY KEY (CourseID));

CREATE TABLE Section\_T

(SectionNo NUMBER NOT NULL,

Semester CHAR(7) NOT NULL,

CourseID CHAR(8),

CONSTRAINT Section\_PK

PRIMARY KEY(CourseID, SectionNo, Semester),

CONSTRAINT Section\_FK FOREIGN KEY (CourseID)

REFERENCES Course\_T (CourseID));

CREATE TABLE Qualified

(FacultyID NUMBER NOT NULL ,

CourseID CHAR(8) NOT NULL,

DateQualified DATE,

CONSTRAINT IsQualified\_PK PRIMARY KEY (FacultyID,

CourseID),

CONSTRAINT QualifiedFaculty\_FK FOREIGN KEY (FacultyID) REFERENCES Faculty\_T (FacultyID),

CONSTRAINT QualifiedCourse\_FK FOREIGN KEY (CourseID) REFERENCES Course\_T (CourseID));

CREATE TABLE Registration\_T

(StudentID NUMBER NOT NULL,

SectionNo NUMBER NOT NULL,

Semester CHAR(7) NOT NULL,

CONSTRAINT IsRegistered\_PK PRIMARY KEY (StudentID,

SectionNo, Semester),

CONSTRAINT StudentIsRegistered\_FK

FOREIGN KEY(StudentID)

REFERENCES Student\_T(StudentID),

CONSTRAINT CourseIsRegistered\_FK

FOREIGN KEY (SectionNo, Semester)

REFERENCES Section\_T(SectionID, Semester));

2. CREATE VIEW Student\_V AS

SELECT StudentID, StudentName FROM Student\_T;

3. See the SECTION\_FK constraint in the DDL for the SECTION table in Problem and Exercise 1 above.