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CSE-3330-001

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Assignment 3

1. STUDENT.(Student\_number)🡪GRADE\_REPORT.(Student\_number)  
   COURSE.(Course\_number)🡪PREREQUISITE.(Course\_number)  
   GRADE\_REPORT.(Section\_identifier)🡪SECTION.(Section\_identifier)  
   SECTION.(Course\_number)🡪PREREQUISITE.(Course\_number)  
   SECTION.(Course\_number)🡪PREREQUISITE.(Prerequisite\_number)
2. a) SELECT Name FROM STUDENT WHERE Major = “CS”  
     
   b) SELECT Course\_name FROM COURSE, SECTION WHERE COURSE.Course\_number = SECTION.Course\_number and SECTION.Instructor = “King” and (SECTION.Year = “07” or SECTION.Year = “08”)  
     
   c) SELECT Course\_number, Semester, Year, COUNT(Section\_identifier) as “Students” FROM SECTION WHERE Instructor = “King”  
     
   d) SELECT Name, Course\_name, Course\_number, Credit\_hours, Semester, Year, Grade FROM COURSE, SECTION, GRADE\_REPORT WHERE Major = “CS” and STUDENT.Student\_number = GRADE\_REPORT.Student\_number and GRADE\_REPORT.Section\_identifier = SECTION. Section\_identifier and COURSE.Course\_number = SECTION.Course\_number  
     
   e) SELECT Name, Major FROM STUDENT, GRADE\_REPORT WHERE STUDENT.Student\_number = GRADE\_REPORT.Student\_number and WHILE(Grade = “A”)  
     
   f) SELECT Name, Major FROM STUDENT, GRADE\_REPORT WHERE STUDENT.Student\_number = GRADE\_REPORT.Student\_number and WHILE(Grade != “A”)
3. a) INSERT INTO STUDENT (Name, Student\_number, Class, Major) VALUES (“John”, 26, 1, “CIVIL”)

b) UPDATE STUDENT SET Class = 3 WHERE Student\_number = 8  
  
c) INSERT INTO COURSE (Course\_name, Course\_number, Credit\_hours, Department) VALUES (“Software Engineering”, “COSC4390”, 3, “COSC”)  
  
d) DELETE FROM STUDENT WHERE Student\_number = 8

1. SELECT \* INTO EMPLOYEE\_BACKUP FROM EMPLOYEE
2. a) All attributes where LNAME = ‘Borg’ will be deleted from EMPLOYEE and EMPSUPERFK due to the ON DELETE CASCADE condition.  
     
   b) SET NULL would be better so that attributes in EMPSUPERFK will not be altered.
3. CHARACTER  
   VARCHAR  
   BOOLEAN  
   SMALLINT  
   INTEGER or INT  
   DECIMAL  
   NUMERIC  
   REAL  
   FLOAT  
   DOUBLE PRECISION  
   DATE  
   TIME  
   TIMESTAMP  
   CLOB  
   BLOB