**Task 1**

Write the SQL code to complete the following tasks:

1. What are the names for the students who have failed subject COMP1001

SELECT stuname, mark

FROM student NATURAL JOIN marks

WHERE subjectid = ‘COMP1001’

AND mark < 40;

2. Who have failed COMP0055 or COMP1001

SELECT stuname, mark

FROM student NATURAL JOIN marks

WHERE mark < 40

AND subjectid = ‘COMP0055’ OR subjectid = ‘COMP1001’;

3. Generate the class lists for Tim Rose (list the names of the students and the module NAME)

SELECT stuname, sname

FROM student NATURAL JOIN enrolled INNER JOIN class USING (subjectid) NATURAL JOIN subject INNER JOIN staffmember ON (teacher = staffid)

WHERE name = ‘Tim Rose’;

**Task 2**

Cartesian product:  
The product of a joining all of the attributes of two relations together into a single relation.  
  
Equi Join:  
A join operation that occurs in the WHERE clause by matching the common attribute between two tables using an equal sign.   
  
Natural Join:   
A join operation that occurs in the FROM clause that do not have an explicit common attribute mentioned between two tables