Lab Exercise 11

This week in the lecture we looked at creating views. For this seminar you will need your notes and solutions from the past few week’s labs.

1. Convert the SQL generated for the last previous lab into views.

CREATE VIEW studentAVGMark AS

SELECT stuname, major, AVG(mark)

FROM Student INNER JOIN Enrolled USING (studentid) INNER JOIN Marks USING (subjectid)

GROUP BY stuname;

CREATE VIEW studentNotEnrolled AS

SELECT stuname, subjectid

FROM Student LEFT OUTER JOIN Enrolled USING (studentid)

WHERE subjectid IS NULL;

CREATE VIEW subjectsDayTime AS

SELECT sname, day, classtime

FROM Subject LEFT OUTER JOIN Class USING (subjectid);

CREATE VIEW teacherClassDay AS

SELECT name, day

FROM StaffMember LEFT OUTER JOIN Class ON (staffid = teacher)

1. Is it possible to convert the SQL statements?

Yes

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1. Examine the views you have generated, considering the lecture you attended are the views generated Simple or Complex?

Complex

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1. Based on what you learned in the lecture would it be possible to update the underlying tables via the queries you generated?

Yes

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5) Generate a view that will identify all the students who have failed and what the module code is, this view must be updateable and should include validation to ensure that marks record that have a pass mark can not be entered via this view

CREATE OR REPLACE VIEW studentFailedSubj AS

SELECT \*

FROM Marks

WHERE mark < 40;

WITH CHECK OPTION CONSTRAINT mark < 40;