

DEMO ANSWERS

<p>A1-</p> <pre>SELECT DISTINCT P.Name FROM Professor P, Teaching T WHERE T.ProfessorId = P.ProfessorId AND T.CourseId LIKE 'CENG%' AND P.DeptId <> 'CENG' ORDER BY P.Name;</pre>	<p>A2-</p> <pre>SELECT S.Name FROM Student S, Transcript T, Course C WHERE T.StudentId = S.StudentId AND T.CourseId = C.CourseId AND C.CourseName = 'Introduction to C Programming' INTERSECT SELECT S.Name FROM Student S, Transcript T, Course C WHERE T.StudentId = S.StudentId AND T.CourseId = C.CourseId AND C.CourseName = 'Electrical Circuits Laboratory'; ORDER BY S.Name;</pre>
<p>A3-</p> <pre>SELECT P.Name , P.age FROM Professor P, Teaching T WHERE P.ProfessorId = T.ProfessorId AND T.CourseId LIKE 'CENG%' UNION SELECT P.Name , P.age FROM Professor P WHERE P.DeptId = 'CENG' ORDER BY P.Name;</pre>	<p>A4-</p> <pre>SELECT S.Name, S.Gpa FROM Student S WHERE S.Gpa > (SELECT MAX (S1.Gpa) FROM Student S1 WHERE S1.Status = 'Senior') ORDER BY S.Name;</pre>
<p>A5-</p> <pre>SELECT T.StudentId , AVG(T.Score) FROM Transcript T WHERE T.Semester IN ('F2013', 'S2014') GROUP BY T.StudentId HAVING AVG(T.Score)>50 ORDER BY T.StudentId;</pre>	<p>A6-</p> <pre>SELECT S.Name FROM Student S WHERE NOT EXISTS (SELECT C.CourseId FROM Course C WHERE C.CourseId LIKE 'EE%' EXCEPT SELECT T.CourseId FROM Transcript T WHERE T.StudentId = S.StudentId) ORDER BY S.Name;</pre>