

PROG8080 Database Management Assignment 3

Use the SIS database for this assignment. Due June 18 11:59pm

#	Question	Table(s)	Marks																								
1.	List the required course prerequisites for COMP2280. Include the course codes and course names for each prerequisite in the result. Order the result by the prerequisite course code.	Course CoursePrerequisiteAnd	4																								
2.	List the employees whose last name begins with the letter "W", using a LIKE predicate. Order the result by employee number. Display the employee's number, first name, last name, schoolCode, and phone extension.	Employee, Person	5																								
3.	List the persons from the Person table who are not students. Show the person's number, first name, last name, and city. Use LEFT OUTER JOIN. Order the results by the person's last name.	Person, Student	5																								
4.	List the lab software installed on machines in room 2A205. List each software package's unique identifier along with the software product's name. Order the result by software product name.	LabSoftware Software Room	5																								
5.	<p>Assume we want to show the names of employees (faculty) who taught courses in a particular session. Show CourseOffering <i>sessionCode</i>, CourseOffering <i>courseNumber</i>, Person <i>firstName</i>, Person <i>lastName</i>, and Employee <i>extension</i> for courses offered in the Fall 2010 session ('F10' in the CourseOffering table). Order the results by <i>courseNumber</i>.</p> <table> <tr> <td>F10</td><td>CDEV1020</td><td>KATHY</td><td>HUHN</td></tr> <tr> <td>F10</td><td>INFO1030</td><td>DALE</td><td>KARSH</td></tr> <tr> <td>F10</td><td>INFO1570</td><td>RICK</td><td>WHETSTONE</td></tr> <tr> <td>F10</td><td>INFO8000</td><td>ABDOLSAMAD</td><td>KATHIRESAN</td></tr> <tr> <td>F10</td><td>PROG8080</td><td>LYNDOL</td><td>YUROVIC</td></tr> <tr> <td>F10</td><td>PROG8090</td><td>RAKESH</td><td>WEKENMANN</td></tr> </table> <p>(6 row(s) affected)</p>	F10	CDEV1020	KATHY	HUHN	F10	INFO1030	DALE	KARSH	F10	INFO1570	RICK	WHETSTONE	F10	INFO8000	ABDOLSAMAD	KATHIRESAN	F10	PROG8080	LYNDOL	YUROVIC	F10	PROG8090	RAKESH	WEKENMANN	CourseOffering Person Employee	7
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F10	PROG8090	RAKESH	WEKENMANN																								
6.	List the names and email addresses of the students who have committed any academic offense, along with the reason for the offence (the Notes column in the StudentOffense table). Order the result by student number.	Student StudentOffence Person	5																								

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7.	<p>Show Employee <i>e1.number</i> aliased as 'Employee' and Employee <i>e1.reportsTo</i> aliased as 'Employee Reports To' and Employee <i>e2.reportsTo</i> aliased as 'Supervisor Reports To'. Order the results by <i>e1.number</i>. Do left outer self-join (<i>e1.reportsTo</i> = <i>e2.number</i>).</p> <pre> Employee Employee Reports To Supervisor Reports To ----- 2117745 4427732 NULL 3214350 4427732 NULL 3455730 4427732 NULL 3514239 4427732 NULL 3566163 4427732 NULL 4427732 NULL NULL 5512736 6860242 NULL 6434468 NULL NULL 6860242 NULL NULL 6886352 8436780 NULL 7572373 4427732 NULL 8135170 4427732 NULL 8383259 6434468 NULL 8436780 NULL NULL (14 row(s) affected </pre>	Employee	7
8.	<p>List user id's for all employees whose last name starts with 'K'. A user id consists of the first letter of the first name followed by the first seven letters of the last name, all in lower case. Alias the user id 'User Id', and sort the results in ascending 'User ID' order. Use either LEFT() or SUBSTRING() as you wish. Include the employee's schoolCode and extension in the result.</p>	Person Employee	5
9.	<p>List the courses containing the word "Programming" in their title that are not currently offered. Order the result by course code. Do not use a LIKE predicate. Use a LEFT OUTER JOIN.</p> <pre> number hours credits name PROG1780 90 6 Programming: Fundamentals PROG2070 45 3 Programming: Software Quality Assurance PROG2240 45 3 Programming: Java Web Technologies PROG2250 60 4 Programming: Object Oriented Game Programming PROG3050 75 5 Programming: Microsoft Enterprise Applications PROG3060 45 3 Programming: Java Enterprise Applications PROG3170 45 3 Programming: Distributed Applications Development PROG3180 45 3 Programming: Mobile Applications </pre>	Course CourseOffering	7
			50