**Lab 8 – SQL**

**Each problem is worth one point. This lab is worth a total of 15 points.**

**From this lab forward, please notice if a result table is in a particular order. If it is you must use the order by clause. Failure to do so will result in 0 points for that specific problem.**

**Place all answers into ONE .sql file and upload to Canvas.**

**Table names are not given. You must determine the correct tables.**

**\*\*\*\* Use the Student table space for the following questions \*\*\*\***

**1. Display the lowest priced course. You must use a subquery.**

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**2. Display the course cost that is between the lowest and the highest priced course. You**

**must use two subqueries.**

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**3. Display the course cost that is larger than the average of the course costs. You must use a**

**subquery.**

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**4. Display the earliest enrollment date.**

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**5. Add 30 days to the earliest enrollment date.**

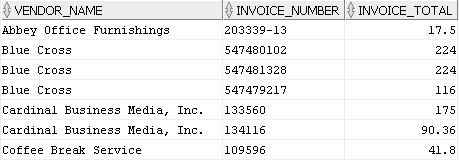
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**\*\*\*\* Use the AP table space for the following questions \*\*\*\***

**6. Display all invoice amounts that are smaller than the largest invoice amount for vendor**

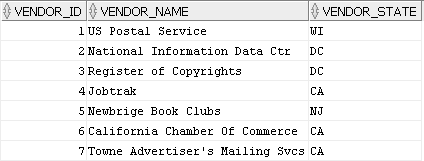
**123.**

**Partial result table (82 rows total)**

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**7. Display the vendors without invoices. Use a subquery.**

**Partial result table (88 rows total)**

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**\*\*\*\* Use the Student table space for the following questions \*\*\*\***

**8. Use double ampersand substitution within a Where clause. Display all student first names**

**and last names that start with a capital ‘M’.**

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**9. Display all course costs that are greater than the lowest course cost. No hard-coding of**

**costs will be allowed.**

**Partial result table (26 rows total)**

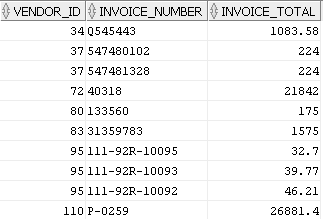
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**\*\*\*\* Use the AP table space for the following questions \*\*\*\***

**10. Display each invoice amount that is higher than the vendor’s average invoice amount.**

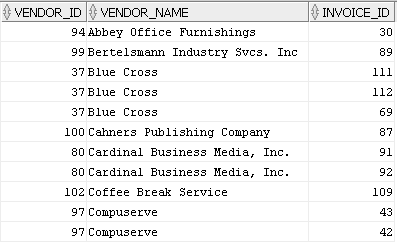
**You must use a correlated subquery.**

**Partial result table (36 rows total)**

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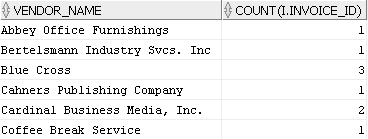
**11. Display all vendors that have at least one invoice. Use an inner join.**

**Partial result table (114 rows total)**

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**12. Display the number of invoices per vendor.**

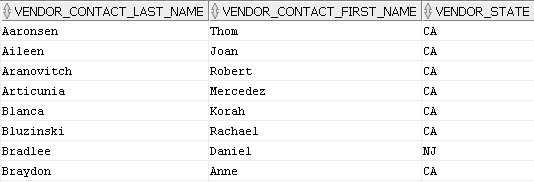
**Partial result table (34 rows total)**

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**13. Display all vendors that have a vendor contact last name length greater than the vendor**

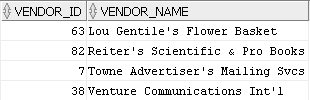
**contact first name and the state must be either California or New Jersey.**

**Partial result table (38 rows total)**

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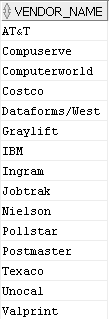
**14. Display all vendors that have an apostrophe (‘) in their name. You must use the INSTR**

**function.**

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**15. Display all vendors that do not have a space in their name. You must use the**

**REGEXP\_SUBSTR function.**

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