DBMS-1002  
Assignment 6

short line

# Instructions

For each question below: read carefully what is being asked and create an SQL Query which answers the question. Note that it is sometimes possible to misinterpret the meaning of a question. When in doubt, please clarify with your instructor before handing in your assignment.

# Grading

Your instructor will review your assignment with you for completeness and comprehension. This review will be done on an individual basis and you will be asked questions

# Questions

| Q | Level 1 | Expected Result |
| --- | --- | --- |
| 1 | Question 1) **(2 Mark)** Create a View to show the city name of any location that has a department. Only show the city name once in the results. **You must use a non-correlated subquery.** Call this view: **Department\_Locations** Include a second query to display from the View after it is created. | 1 view created.  Display result from the view, 7 records. |
| Q | Level 2 | Expected Result |
| 2 | Question 2) **(3 Marks)** Create a View to show all the first and last names of managers and the count of their employees. Order the result by the highest number of employees first. **You must use a correlated Subquery** to obtain the employee count on each row.  **(Hint: put the subquery in the SELECT)**  You may have a lot of results with 0, that’s fine.  Use the View to **rename:** first\_name to “First Name”,   last\_name to “Last Name”   Employee count result to “Employee Count”  Call this view: **Management\_Employee\_Counts** Include a second query to display from the View after it is created.  Example data: | 1 view created.  Display result from the view… see next page for partial results (108 rows returned in total) |

| Q | Level 3 | Expected Result |
| --- | --- | --- |
| 3 | Question 3) **(5 Marks)**    Answer the following **in your own words**(extra research may be required):    Part A   1. The benefits of Views versus Tables? 2. The drawbacks of Views versus Tables? 3. The difference between a correlated query and non-correlated query? 4. Explain why a subquery would be used?   Part B   1. Describe the difference between a NoSql database and a relational database. 2. Describe a general scenario where NoSql would be a better choice than a relational database. 3. Describe a general scenario where a relational database would be a better choice than NoSql.     Resources:   * <https://www.mongodb.com/compare/relational-vs-non-relational-databases> * <https://www.ibm.com/cloud/blog/sql-vs-nosql> | Great answers! |

# Assessment

You will be assessed based on the rubric attached to your DropBox.

# Hand-in

In this assignment you will create a new .SQL file using PostgreSQL. Please rename your file to follow the format: ***assignment#\_firstname\_lastname.sql***

For Example: ***assignment6\_scott\_wachal.sql***

Use the appropriate LEARN DropBox to upload your file. If you need to upload a newer version, you may do so before the deadline, but only the newest copy will be graded by your instructor.

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