First Set of Assignments for CIT230

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**PLEASE NOTE THAT ALL OF THE ASSIGNMENTS NEED TO BE COMPLETED IN THE COURSE. FOR ALL ASSIGNMENTS THAT ARE TO BE TURNED IN, THEY HAVE A POINT VALUE NEXT TO THEM.  THANK YOU DR. GRANT**

**1. Read the first two chapters of the textbook. As you are reading** and working onchapter two, please refer to step three and complete Hands-on Learning Module – Create the Cape\_Codd database to create the Cape\_Codd database, as well as the tables and corresponding data.

Please keep in mind that we will only be working with Microsoft SQL Server in the course and the other course materials referring to other databases (Microsoft Access and Oracle MySQL) are for your information only.

**2. Review the PowerPoint Lectures corresponding to the chapters** located at the PowerPoint Lectures link at our Blackboard course site at <https://my.ccac.edu>

**Be sure that you have downloaded and installed Microsoft SQL** Server, along withMicrosoft SQL Server Management Studio onto your computer (as instructed in a prior assignment).

**3. Complete Hands-on Learning Modules (they are attached to the** First Set of Assignments at our Blackboard course site at https://my.ccac.edu).

Hands on Learning Module - Create the Cape\_Codd Database (refer to this database when reading Chapter Two in our textbook. Students may want to practice entering some of the select queries based on this database.

Hands on Learning Module - Create the VRG Database

For more detailed instructions on creating and working with the Cape\_Codd or VRG database, please refer to the document M10A\_KROE2749\_15\_SE\_C10A.PDF as found in the First Set of Assignments in the Assignment link or the Online Chapters link at our Blackboard course site at <https://my.ccac.edu>.

Note: If you downloaded and installed the newest version of Microsoft SQL Server, you *may not* be able to create the database diagram. If this is the case, I will not take off any points regarding this part of the assignment. You can research for other third-party software to create the database diagram but this will not be a course requirement.

**4. 10 POINTS - Now that we have created the VRG database, the** table structures, the database diagram, as well as populated the data into the tables, please study the VRG database, as well as the database diagram, along with the tables in terms of their structure and relationships (primary and foreign keys), as well as the data contained in each table. We will also look at DBMS design in the second set of assignments as well.

In Microsoft SQL Server Management Studio, double-click on the Database Diagrams folder and double-click on the VRG-Database-Diagram you created in the Hands-on Learning Module – Create the VRG database (see step 9 above). Try and get all of the tables to fit onto one screen as best as you can and then use the ALT PrintScreen keyboard keys to take a picture of the diagram. Once you do this, open a new Microsoft Word document and use the paste command to place the picture into the document. Save the Microsoft Word file as LastNameDiagramQueries. Leave the Microsoft Word file open for the next step below.

Note: If you downloaded and installed the newest version of Microsoft SQL Server, you may not be able to create the database diagram. If this is the case, I will not take off any points regarding this part of the assignment. You could also research a third-party provider for trial software to create the database diagram but this will not be an assignment requirement.

**5. 30 POINTS - Create three select queries that will retrieve data** from *two or more tables* to obtain information from the VRG database tables. Please refer to chapter two for sample queries in your textbook to help you in constructing your queries for the VRG database.

Students may also want to review  <https://www.w3schools.com/sql/sql_join.asp> to help in the construction of their SELECT queries.

For each query you want to create, include a sentence as to the purpose of your query and then use the ALT PrintScreen keyboard keys to take a picture of the SQL query statement, as well as the query results. Use the paste command to place the picture into the document.

Use the CTRL enter keyboard keys to place a page break into the document after each query.

Save the document as YourLastNameDiagramQueries.docx file.

Submit your LastNameDiagramQueries.docx Microsoft Word document containing the VRG Diagram, as well as the three queries to the DIGITAL DROPBOX ONE location at our Blackboard course site via the First Set of Assignments.

**6. 10 POINTS - Find an article at the CCAC online library** at <https://www.ccac.edu/library> (see the course documents link for more information on using the CCAC online library) relating to a subject you found interesting that is based upon the first two chapters you read above.  The article cannot be more than one year old.   Be sure to find a simple article that you can relate to in order to write your summary/analysis.

To do this, click on the Discussion Boards link, click on the Computer Research Article Summary One and click the create thread button and call it Article Summary on Database Technology and enter your summary (at least 7 to 10 sentences in your own words) of the article.

Include another paragraph on your analysis (at least 7 to 10 sentences in your own words) of the article as well.

You also need to add the article reference as well.  The reference should include the author(s), date of the article, name of the article, as well as the name of the journal where the article was found.   Do not post the article reference as a hypertext link.

Be sure you have headings prior to entering your information: SUMMARY, ANALYSIS, and REFERENCE.

Be sure to use the SUBMIT button once you have edited and reviewed your posting.

Sample Reference for APA Style:

GENKIN, D., PACHMANOV, L., PIPMAN, I., SHAMIR, A., & TROMER, E. (2016). Physical Key Extraction Attacks on PCs. *Communications of The ACM*, *59*(6), 70-79.

**7. OPTIONAL ASSIGNMENT - Students, if you find any videos that are helping you** in the course, please post a brief description of the link, as well as the link to the Videos to Share with the Class Discussion Board at our Blackboard course site at <https://my.ccac.edu>

**8. Study the information in chapter two, as well as the VRG database** diagram that we created in step nine above and begin to think about a DBMS that you would like to create in the course for this will be part of a major DBMS student project that you will create in the course. The fully completed DBMS student project will be due on the last day of the course, excluding finals week. More information about the student DBMS project will be given to students in the second and third (final) set of assignments.

**9. Contact me with any questions you might have at ngrant@acd.ccac.edu**