

SDEV 350 Homework 3 – Oracle Virtual Private Database

Overview:

This homework provides an opportunity for the student to create a Virtual Private Database in Oracle

Assignment: Total 100 points

Using the Schema you developed in Homework 1 for your e-Commerce project, design and implement a Virtual Private Database that limits database access. Your design should be based on two of your columns and two of your tables. (Hint: where col1 = value1 AND col2 = value2). Which columns and tables you choose is up to you and will be based on your initial design. You may alter your tables if it makes sense to do so.

Develop and conduct a test plan that clearly shows how access has been restricted by using the Virtual Private Database.

In most cases you will need to create a separate policy and function for each of the two tables you select. Use the tutorial as a reference and follow the steps for creating the policy function, creating the virtual private database policy and testing the policy.

Deliverables:

1. Create a word or PDF document that describes your process, steps and results. Be sure to describe your schema and why you selected the tables and columns you did for your Private database. Provide screen shots showing the successful running of all of your SQL statements and testing your implementation. Be sure your testing is comprehensive and clearly demonstrates how the virtual private database restricts access to specific records. The document should be neat, well-organized, well-written and contain minimal grammar and spelling errors.
2. A .sql script file containing all SQL statements you used for this effort. All SQL statements should be in one file with appropriate connect statements to differentiate users who run the script. The script file should contain comments describe each major set of SQL statements. The script should run perfectly without error when executed from the Oracle SQL*PLUS environment.

Grading Rubric:

Attribute	Meets	Does not meet
Virtual Private Database	50 points Designs and implements a Virtual Private Database that limits database access. (20 points) Design based on two of your columns and two of your tables. (20 points) Creates a policy and function for each of the tables used in Virtual Private database. (10 points)	0 points Does not design and implement a Virtual Private Database that limits database access. Design is not based on two of your columns and two of your tables. Did not create a policy and function for each of the tables used in Virtual Private database.

Test plan	<p>20 points</p> <p>Develops a test plan that clearly shows how access has been restricted by using the Virtual Private Database. (10 points)</p> <p>Conducts the test plan showing how the Virtual Private Database restricted access. (10 points)</p>	<p>0 points</p> <p>Does not develop a test plan that clearly shows how access has been restricted by using the Virtual Private Database.</p> <p>Does not conduct the test plan showing how the Virtual Private Database restricted access.</p>
Documentation and submission	<p>30 points</p> <p>Creates a word or PDF document that describes your process, steps and results. (8 points)</p> <p>Describes your schema and why you selected the tables and columns you did for your Private database. (4 points)</p> <p>Provides screen shots showing the successful running of all of your SQL statements and testing your implementation. (4 points)</p> <p>Testing is comprehensive and clearly demonstrates how the virtual private database restricts access to specific records. (4 points)</p> <p>Document is neat, well-organized, well-written and contain minimal grammar and spelling errors. (2 points)</p> <p>Provides a .sql script file containing all SQL statements you used for this effort. (2 points)</p> <p>All SQL statements are in one file with appropriate connect statements to differentiate users who run the script. (1 points)</p> <p>The script file contains comments describing each major set of SQL statements. (1 points)</p>	<p>0 points</p> <p>Does not create a word or PDF document that describes your process, steps and results.</p> <p>Does not describe your schema and why you selected the tables and columns you did for your Private database.</p> <p>Does not provide screen shots showing the successful running of all of your SQL statements and testing your implementation.</p> <p>Testing is not comprehensive and does not clearly demonstrates how the virtual private database restricts access to specific records.</p> <p>Document is not neat, well-organized, well-written and contain multiple grammar and spelling errors.</p> <p>Does not provide a .sql script file containing all SQL statements you used for this effort.</p> <p>All SQL statements are not in one file with appropriate connect statements to differentiate users who run the script.</p> <p>The script file does not contain comments describing each major set of SQL statements.</p> <p>The script does not run perfectly without error when executed from the Oracle SQL*PLUS environment.</p>

	The script runs perfectly without error when executed from the Oracle SQL*PLUS environment. (4 points)	
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