Cognizant_Logo_Brand_Blue_CMYK_300



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Assignment Document:

<Redshift Architecture\_Database and User>

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Topic: <Redshift Database and User Creation>

### Hands-On Exercises

Hands-On Exercise 1: <Creating Redshift database>

Estimated Completion Time: xx Minutes

(xx Marks)

Objective: To **Learn the database hierarchy creation**

Complete the following assignment:

1. Guided Exercise 1
2. Guided Exercise 2

Hands-On Exercise 2: <Creating Redshift user>

Estimated Completion Time: xx Minutes

(xx Marks)

Objective: To Learn user creation

Complete the following assignment:

1. Guided Exercise 3

### Guided Assignments

Guided Exercise 1: < Create a database called “Finance” which will store the finance related objects of an organization.>

Estimated Completion Time: 15 Minutes

(xx Marks)

Objective: To learn the database creation

Concept: Database is the object that will hold the application specific objects like

Tables, views, macros and stored procedures. Usually every application will have its own database and all related objects will be stored in that database.

Step 1: Database will be created with one of the Data definition language statement called “CREATE DATABASE”.

Step 2: Open SQL Interface.

Step 3: Logon to Redshift server with credentials.

Step 4 :Use below statement to create database on Redshift server.

CREATE DATABASE Finance;

Summary of this exercise:

You have just learnt:

* Create database statement

### Guided Assignments

Guided Exercise 2: < Create a database called “Payroll” under the database “Finance”. >

Estimated Completion Time: 15 Minutes

(xx Marks)

Objective: To learn the database hierarchy creation

Concept: Database hierarchy creation is usual practice in the data warehouses.

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Step 1: Database will be created with one of the Data definition language statement called “CREATE DATABASE”.

Step 2: Open SQL Interface.

Step 3: Logon to Redshift server with credentials.

Step 4: Use below statement to create database “Payroll” under “Finance” database on Redshift server.

CREATE DATABASE Payroll from Finance

;

Summary of this exercise:

You have just learnt:

* Creating database hierarchy for an application.

### Guided Assignments

Guided Exercise 3: < Create a user called “Taxpayer” under the database “Finance” and its password will be “cts2019”. >

Estimated Completion Time: xx Minutes

(xx Marks)

Objective: To learn the user creation and necessary properties of user

Concept: In data warehousing, databases will hold the data and users will operate on the data.

Step 1: User will be created with one of the Data definition language statement called “Create User”.

Step 2: Open SQL Interface.

Step 3: Logon to Redshift server with credentials.

Step 4: Use below statement to create user “Payroll” under “Finance” database on Redshift server.

CREATE USER Taxpayer FROM Finance

PASSWORD = ‘cts2019’

;

Summary of this exercise:

You have just learnt:

* Creating user for an application.

### Case Study Assignments

Case Study: <Creating the hierarchy of Application Databases>

Estimated Completion Time: xx Minutes

(xx Marks)

Objective: Creating database hierarchy and users for Project database

Concept: In data warehousing, similar objects will be placed in single database like all tables related to one application will be placed in one database. All views will be placed in another database under the application database.

Case: Create the below database hierarchy on Redshift server with given specifications.

Solution:

Step 1 : Create the parent database “ProjectX” with the given specifications:

CREATE Database ProjectX;

Step 2 : Create the child database “ProjectXViews” with the given specifications:

CREATE Database ProjectXViews FROM ProjectX;

Step 3 : Create the child database “ProjectXTables” with the given specifications:

CREATE Database ProjectXTables FROM ProjectX;

Step 4 : Create the user “Employee101” with the given specifications:

CREATE User Employee101 FROM ProjectX;

Step 5 : Create the user “Employee102” with the given specifications:

CREATE User Employee102 FROM ProjectX

PASSWORD=’E102’;

Evaluation Rubrics

|  |  |
| --- | --- |
| Parameters | Weightage |
| 1. Completeness | X |
| 1. Accuracy | X |
| 1. Clarity of understanding | X |
| 1. Presentation | X |
| Total |  |

Summary of this Case Study:

You have just learnt:

* Creating of application database hierarchy with related users.