

Instructional Scenario

PL/SQL Exceptions



Course / Duty Area: Database Design and Management with PL/SQL / Using Exception Handling

Scenario:

At school administrators' request, you have implemented an application to incorporate a music playlist as the notification that a class period is coming to an end. As you test the code accesses music from the database, your queries sometimes return unwanted messages or errors. To complete your assignment to implement the application, you must understand and handle potential errors within the code.

Big Question:

What happens when results are not anticipated by logic in the code, and how should this be handled?

Focused Questions:

- What if there are no results in the database? How does the PL/SQL code handle this?
- What are ways to deal with various database results and to have cleaner code?
- What is an exception handler? Why should exception handlers be used?
- How does one handle exceptions within PL/SQL?
- How does the scope of code impact exceptions?
- How does the location of an exception handler in the code affect results?
- How are predefined Oracle Server exceptions trapped?
- How are non-predefined Oracle Server exceptions trapped?
- How are user-defined exceptions trapped?

Project-Based Assessment:

Working as a team of two or three students, create a slide presentation to present to the administration and database designers. The slide presentation should include an appropriate background, pictures or images, and the following information on the slides:

- A definition and examples of an exception
- A definition and example of an exception handler
- An example of PL/SQL code using an exception handler
- An example of how scope can impact an exception handler
- Examples of how different types of exceptions can be coded, including predefined Oracle exceptions, non-predefined Oracle exceptions, and user-defined Oracle exceptions

Teacher Resources:

- [Handling PL/SQL Errors](#), Database PL/SQL User's Guide and Reference, Oracle

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