

Instructional Scenario

PL/SQL Data Types and Using %Type



Course / Duty Area: Database Design and Management with PL/SQL / Using PL/SQL Program Data

Scenario:

School administrators have recruited you to design and implement an application that will incorporate a music playlist as the notification that the class period is coming to an end. The application must communicate with an existing music database that contains the following data: SONG_NAME, BAND, MUSICIAN, and ALBUM. You must choose the best data types to access the current data, as well as any data that might be added if the database is updated or altered.

Big Question:

What data types should you choose to access current data, as well as any potential future data, in the database?

Focused Questions:

- What are the available PL/SQL data types?
- What are the differences between SQL and PL/SQL data types?
- What future data might be added to the database?
- What is the %TYPE attribute?
- Why is the %TYPE attribute a best practice to use?
- Why is it important to store data in the appropriate data type and use the %Type attribute?

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 list of the PL/SQL data types
- A description of the SQL and PL/SQL data types and their differences
- PL/SQL data types that could be used in the future
- Description of the %TYPE attribute and why it should be used

Teacher Resources:

- [PL/SQL Data Types](#), Oracle
- [PL/SQL Datatypes](#), Database PL/SQL User's Guide and Reference, Oracle

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