Oracle SQL

Lab Assignment #1

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1. What are primary and foreign keys? Explain in detail. What are the implications of using these keys in different tables?

A primary key is used to ensure data in the specific column is unique. A foreign key is a column or group of columns in a relational database table that provides a link between data in two tables. Since a primary key ensures unique row identification, it results in faster sorting, searching, and querying operations. A foreign key creates a link between two tables.

2. What is data dictionary? What is it used for?

A data dictionary is a set of database tables that store information about a database’s definition. It contains information about database objects such as tables, indexes, columns, data types, and views. It is used to execute queries and is automatically updated whenever objects are added, removed, or changed within the database.

3. What is the significance of creating a column in a table? What is the significance of a row in a table?

In a table, the column contains the column name, data type, and any other attributes of the column. The rows contain the data for the columns

4. What is referential integrity and how is it used in relational databases for adding, removing and updating rows?

Referential integrity is a system of checks and balances that you can create in your database to ensure that tables with related data remain synchronized. It allows you to modify or prohibit updates, inserts, or deletes based on whether identical field values exist in the same or other tables.