Practices for Lesson 19: Altering an Existing Design

Chapter 19

Practice 19-1: Re-Engineer the HR Schema

Task

Perform the following tasks in Oracle SQL Developer Data Modeler:

1. Import all the tables in the `hr` schema from the data dictionary.

2. Reverse engineer to create a logical model.

3. Add the `DEPENDENTS` entity with the following attributes: `ID`, `Name`, and `Birthdate`. Create a relationship between `EMPLOYEES` and `DEPENDENTS`. ID is the unique identifier. You may import the `domains.xml` file from the solutions directory, and use the domains in the file as the data types for some of your new attributes.

4. Add `COST CENTER` to the `DEPARTMENTS` entity.

5. In the `EMPLOYEES` entity, move `HIRE_DATE` above the `EMAIL` attribute.

6. Create a `1:N` relationship between `EMPLOYEES` and `DEPENDENTS`.

7. Forward engineer to a new relational model.

8. Compare the relational model with what is currently in the database.
   Hint: Run the import from the data dictionary.

9. Preview the DDL. Were the correct `ALTER` statements generated?