

## **Part 2 – Working with Object-Relational Mapping**

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Welcome to the Smart Development Environment (SDE). SDE is not only a visual UML modeling plugin, but also an Object-Relational Mapping tool supported in the Smart Development Environment Enterprise Edition (SDE EE) and the Smart Development Environment Professional Edition (SDE PE).

Being an Object-Relational Mapping tool, SDE automates the mappings between Java objects, object models, data model and relational database; it supports not only the generation of persistent code and database, but also the synchronization between persistent code, object model, data model and relational database, thus reduces the development time significantly.

SDE supports two types of object-relational mapping, that is, object-relational mapping for Java (called Java ORM) and the other for .NET (called .NET ORM). SDE PE supports Java ORM while SDE EE supports both Java ORM and .NET ORM. This part introduces how to work with object-relational mapping in SDE such that you can develop your object model and data model in an easier way.

This part is intended for database application developers and administrators, software system architects, software engineers and programmers and anyone who uses the major Integrated Development Environments (IDEs) including Eclipse, Borland JBuilder®, NetBeans/Sun™ONE, IntelliJ IDEA™Oracle JDeveloper, BEA WebLogic Workshop™Content in this part of document is based on SDE for Eclipse

In this chapter:

- Introduction to Object-Relational Mapping
- Getting Started with Object-Relational Mapping
- Using ORM Wizard
- Object Model
- Data Model
- Database Schema
- Implementation
- Manipulating Persistent Data with Java
- Manipulating Persistent Data with .NET