

# Developing Java EE 5 Applications SPS21 ▾

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## Using Open SQL/JDBC in the Persistence Layer ☆



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### Context

The aim of **Open SQL for Java** is to allow application developers to implement database access independently of a particular database system. This goal is achieved by:

- Defining a subset of SQL that is comprehensible for all database systems.  
More information: [Open SQL Grammar](#)
- Defining a subset of JDBC that is compatible with all database systems. This section deals with Open SQL/JDBC.

Although JDBC is a standard that is recognized by the Java community, existing implementations of various database vendors differ in details. Open SQL/JDBC is the JDBC-compatible implementation of the essential parts of the JDBC standard. This implementation allows you to access in a portable way all database systems that are supported by SAP. Open SQL/JDBC implements the interfaces from the Java package `java.sql.*`.

Using Open SQL/JDBC, you can select and modify data in existing database tables. The tables are created in the Java Dictionary.

More information about Java Dictionary: [Providing Java Dictionary Tables and Data Types](#)

More information about the most important aspects of Open SQL/JDBC:

[Semantics of the Data Types DATE, TIME, and TIMESTAMP](#)[Transactions in Open SQL/JDBC](#)[Native SQL Access](#)[Error Handling](#)

### Procedure

- Get a connection to the database.  
More information: [Getting a Connection to the Database](#)
- Insert data into a table  
More information: [Inserting Data Into Tables](#)
- Retrieve data from the database  
More information: [Using Queries](#)

### Next Steps

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