

24.12 Wrap-Up

In this chapter, you learned basic database concepts, how to query and manipulate data in a database using SQL and how to use JDBC to allow Java applications to interact with Java DB databases. You learned about the SQL commands **SELECT**, **INSERT**, **UPDATE** and **DELETE**, as well as clauses such as **WHERE**, **ORDER BY** and **INNER JOIN**.

You created and configured databases in Java DB by using predefined SQL scripts. You learned the steps for obtaining a **Connection** to the database, creating a **Statement** to interact with the database's data, executing the statement and processing the results. You incorporated a Swing **JTable** component into a JavaFX GUI via a **SwingNode** and used a **TableModel** to bind **ResultSet** data to the **JTable**.

Next, you used a **RowSet** to simplify the process of connecting to a database and creating statements. You used **PreparedStatement**s to create precompiled SQL statements. We also provided overviews of **CallableStatements** and transaction processing. In the next chapter, you'll learn about JShell—Java 9's REPL (read-evaluate-print loop) that enables you to quickly explore, discover and experiment with Java language and API features.