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 `CallableStatement`s 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.