

SELF TEST ANSWERS

Position the Server Technologies

1. ☒ E. Grid Control can manage the complete environment (according to Oracle Corporation).
☒ A, B, C, D. All of these can be managed by Grid Control.
2. ☒ A, C, D. SQL, PL/SQL, and Java can all run in the database.
☒ B, E. C cannot run inside the database, and OCI is used by external processes to connect to the database; it does not run within it.

Understand Relational Structures

3. ☒ B. Third normal form is the usual form aimed for by systems analysts when they normalize data into relational structures.
☒ A, C, D. A is wrong because first normal form is only the first stage of data normalization. C and D would be more suitable to the X-Files than to a database.
4. ☒ A. The relational model uses two-dimensional tables.
☒ B, C, D. B is wrong because two dimensions is the limit for relational structures. C and D are wrong because they refer to nonrelational structures (though there are facilities within the Oracle database for simulating them).

Summarize the SQL Language

5. ☒ D. In a set-oriented language, one command can affect many rows (a set), whereas a procedural language processes rows one by one.
☒ A, B, C. A is wrong because while rows should have a unique identifier in a well designed application, this is not actually a requirement. B is wrong because users cannot be grouped in the Oracle environment. C is wrong because (even though the statement is correct) it is not relevant to the question.
6. ☒ A, B, C. These are all procedural constructions, which are not part of a set-oriented language. They are all used in PL/SQL.
☒ D, E. These are SQL's transaction control statements.

Use the Client Tools

7. ☒ B, C. B is correct because SQL Developer can be installed in its own directory. C is correct because passwords can be saved as part of a connection definition (though this may not be a good idea).
☒ A, D. A is wrong because the Oracle Net protocol lets SQL Developer connect to a number of versions of the database. D is wrong because LDAP is only one of several techniques for name resolution.

8. ☒ **A, E.** A is correct because SQL Developer is written in Java and therefore requires a Java Runtime Environment. E is correct because SQL Developer needs a graphics terminal to display windows.
- ☒ **B, C, D.** B is wrong because SQL Developer uses JDBC to connect to databases, not OCI. C is wrong because, while SQL Developer can use LDAP or a TNSNAMES.ORA file, it can also use and store the basic connection details. D is wrong because SQL Developer is a completely independent product.

Create the Demonstration Schemas

9. ☒ **C.** The demonstration schemas can be created in any database, either at database creation time or by running scripts later.
- ☒ **A, B, D.** A and B are wrong because, while they may be good practice, they are not a technical requirement. D is wrong because it fails to understand that a schema can only be (and always is) created with a user.
10. ☒ **B.** A schema and a user are inseparable.
- ☒ **A, C, D.** A is wrong because there is no such command. C and D are wrong because they assume the impossible: that you can separate a user from his or her schema.

LAB ANSWER

Figure 1-12 shows a solution.

FIGURE 1-12
An entity-relationship diagram describing the OE schema

