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4. Which is responsible for getting a connection to the database?

Driver
 Connection
 Statement
 ResultSet

	e code getting a Connection isforName().	to call
allowe	d, allowed	
	d, required	
	ed, allowed	
	ed, required	
. requir	ea, requirea	
. Which	of these obtains a Connection?	
. Conne	ction.getConnection(url)	
.Drive	r.getConnection(url)	
.Drive	rManager.getConnection(url)	
. new C	onnection(url)	
. Which	method is overloaded to allow passing a user ord?	name and
. forNa	me()	
. getCo	nnection()	
. getSt	atement()	
. None	of the above	
	is the name of a concrete class that implement uded in the core JDK?	s Statement and
. Calla	bleStatement	
. Prepa	redStatement	
. State	mentImpl	
. None	of the above	
	nany of the following could be valid JDBC URI nary driver named magic and a database name	
.jdbc:	magic:127.0.0.1:1234/box	
.jdbc:	magic:box	
.jdbc:	magic:@127.0.0.1:1234	
. None		
. One		
. Two		
. Three		
4.0, th and th	most accurately fills in the blanks in this sent e driver is to contain a java.sc e code getting a Connection isforName().	ence? With JDBC q1.Driver file, to call
. allowe	d, allowed	
	d, required	
	ed, allowed	
. requir	ed, required	
	pair of statements is true when requesting a F croll sensitive and updatable?	ResultSet to be
	roll sensitive option is passed as a parameter lable parameter.	pefore the
	odatable option is passed as a parameter befor ve parameter.	e the scroll
	e options are not available, the database drive tSet with different options.	r returns a
	e options are not available, the database drive ception.	r throws a
. I, III		

```
2. I, IV
3. II, III
4. II, IV
12. Suppose the blue database exists and we are using a JDBC 4.0 driver.
    Which is the outcome of this code?
        String url = "jdbc:derby:blue";
        Class.fonName(url);

try (Connection con = DriverManager.getConnection(url);

Statement stat = conn.createStatement();

ResultSet rs = stmt.executeQuery("select count(*) from sky")) {
            System.out.println(rs.getInt(1));
 1. It runs successfully and prints the number of rows in the sky table.
 2. It throws a ClassNotFoundException.
 3. It throws a SQLException.
 4. It does not compile.
13. Fill in the blanks: There are ____
                                                      ____ ResultSet concurrency
    modes, and drivers are required to support _
3. three, two of them
 4. three, all of them
14. What is the output when run with a JDBC 4.0 driver if the clowns
   database exists and contains an empty clowns table?
        String url = "jdbc:derby:clowns";
try (Connection conn = DriverManager.getConnection(url);
Statement stmt = conn.createStatement();
ResultSet rs = stmt.executeQuery("select count(*) from clowns")
              System.out.println(rs.getInt(1));
 1. 0
2. 1
3. The code does not compile.
 4. The code compiles but throws an exception at runtime.
15. Consider the three methods execute(), executeQuery(), and
    \verb|executeUpdate()|. Fill in the blanks: \_\_\_ of these methods
    is/are allowed to run a DELETE SQL statement while \_
   these methods is/are allowed to run an UPDATE SQL statement.
 1. One, one
2. One, two
 4. Two, two
16. Assuming the clowns database exists and contains one empty table
    named clowns, what is the output of the following when run using a
   JDBC 4.0 driver?
        import java.sql.*;
        public class EmptyTable {
  public static void main(String[] args) throws SQLException { //
    String url = "jdbc:derby:clowns";
    try (Connection conn = new Connection(url); // s2
    Statement stmt = conn.createStatement();
    ResultSet rs = stmt.executeQuery("select * from clowns")) .
                    if (rs.next())
   System.out.println(rs.getString(1));
```

}

- 1. The code terminates successfully without any output.
- 2. The code does not compile due to line s1.
- 3. The code does not compile due to line s2.
- 4. None of the above
- 17. Which are valid ResultSet types?
- 1. TYPE BACKWARD ONLY
- 2. TYPE\_FORWARD\_ONLY
- 3. TYPE\_REVERSE\_ONLY
- 1. II
- 2. I and II
- 3. II and III
- 4. None of the above
- 18. Given the table books in the figure and a ResultSet created by running the following SQL statement, which option prints the value 379?

	num_pages integer
OCA	379
OCP	669

select \* from cert where title = 'OCA'

- 1. System.out.println(rs.getInt(1));
- 2. System.out.println(rs.getInt(2));
- 3. System.out.println(rs.getInteger(1));
- 4. System.out.println(rs.getInteger(2));
- 19. Given the table books in the previous question and a ResultSet created by running this SQL statement, which option prints OCP?

select title from cert where num\_pages > 500

- 1. System.out.println(rs.getString());
- 2. System.out.println(rs.getString("0"));
- 3. System.out.println(rs.getString("1"));
- 4. System.out.println(rs.getString("title"));
- 20. Assume the database exists with all referenced table and column names. Which is a true statement when a JDBC 4.0 driver is used?

```
String url = "jdbc:derby:precipitation";
try (Connection conn = DriverManager.getConnection(url);
Statement stmt = conn.createStatement(
ResultSet.CONUR_READ_ONLY,
ResultSet.TYPE_SCROLL_INSENSITIVE);
ResultSet rs = stmt.execute( "select total from precip when System.out.println(rs.getString("total"));
}
```

- There is a compiler error on the line of code that creates the Statement.
- 2. There is a compiler error on the line of code that creates the  $\label{eq:code} \mbox{ResultSet}.$

- 3. This code compiles and runs without error.
- 4. This code throws a SQLException at runtime.
- 21. Which resources have their  ${\tt close()}$  method called when this code runs?

```
public static void runQuery(Connection conn) throws SQLException{
  try (Statement stmt = conn.createStatement()) {
    ResultSet rs = stmt.executeQuery("select * from clowns");
    rs.next();
  }
}
```

- 1. No close() methods are called.
- 2. Only Statement
- 3. Only Statement and Connection
- 4. Only Statement and ResultSet
- 22. Which statement is true about the JDBC core classes?
- 1. Driver is an implementation of DriverManager.
- 2. A general Connection implementation is included in the JDK.
- $3.\ A$  Statement automatically starts in auto-commit mode.
- 4. A ResultSet automatically starts pointing to the first row of data.
- 23. Which of the following is required in a database driver implementation?
- 1. A file named jdbc.driver
- 2. A file named java.sql.Driver
- 3. At least one implementation of the Connection interface
- 4. None of the above
- 24. Given that the people table has 10 rows, what is the result of the following when using a driver that supports a scroll sensitive ResultSet?

- 1. 10
- 2. The code does not compile.
- 3. Line q1 throws a SQLException.
- 4. Line q2 throws a SQLException.
- 25. Given a scrollable updatable ResultSet that contains the following, what does the code snippet output?

color character varying(255)	count integer
black	20
blue	5
red	0

```
rs = stmt.executeQuery("select * from pens");
rs.afterLast();
rs.prevlous();
rs.updateInt(2, 18);
rs.updateRow();
rs.updateRow();
rs = stmt.executeQuery("select * from pens where color = 'red'");
```

```
while (rs.next())
             System.out.println(rs.getInt(2));
 1. 0
 2. 10
 3. The code does not compile.
 4. The code compiles but throws an exception at runtime.
26. Given a scrollable updatable {\tt ResultSet} represented by the image in
    the previous question, what does the code snippet output?
         rs = stmt.executeQuery("select * from pens");
rs.afterLast();
while(rs.prev())
rs.updateInt(2,0);
rs = stmt.executeQuery("select * from pens where color = 'black'");
while (rs.next())
System.out.println(rs.getInt(2));
 1. 0
 2. 20
 3. The code does not compile.
 4. The code compiles but throws an exception at runtime.
27. How many rows are added to the colors table from running the
    following?
         try (Connection conn = DriverManager.getConnection(url);
    Statement stmt = conn.createStatement()) {
             conn.setAutoCommit(false);
stmt.executeUpdate("insert into colors values ('red')");
stmt.executeUpdate("insert into colors values ('blue')");
             conn.commit();
conn.setAutoCommit(true);
stmt.executeUpdate("insert into colors values ('green')");
 1. None
 2. One
 3. Two
 4. Three
28. Which is true if the clowns database exists and contains an empty
    clowns table?
        String url = "jdbc:derby:clowns";

try (Connection conn = DriverManager.getConnection(url);

Statement stmt = conn.createStatement();

ResultSet rs = stmt.executeQuery("select count(*) from clowns")
               rs.next(); // r1
               System.out.println(rs.getInt(1)); // r2
 1. The code compiles and runs without error.
 2. The code does not compile.
 3. The code compiles but throws an exception at runtime on line {\tt r1.}
 4. The code compiles but throws an exception at runtime on line {\tt r2}.
```

29. Suppose the ResultSet is scrollable and contains 10 rows with the values 1–10 respectively. What is the output of the following?

```
5: rs.absolute(0);
6: rs.relative(5);
7: rs.relative(-10);
8: rs.relative(5);
9: System.out.print(rs.getInt(1));
```

```
1. 4
 3. The code does not compile.
  4. The code compiles but throws an exception at runtime.
30. Suppose the blue database does not exist and we are using a JDBC
     4.0 driver. Which is the outcome of this code?
          String url = "jdbc:derby:blue";
try (Connection conn = DriverManager.getConnection(url);
Statement stmt = conn.createStatement();
ResultSet rs = stmt.executeQuery("select count(*) from sky")) {
               System.out.println(rs.getInt(1));
  1. It runs successfully and prints the number of rows in the sky table.
  2. It throws a ClassNotFoundException.
  3. It throws a SQLException.
  4. It does not compile.
31. What is the most likely outcome of this code if the people table is
     empty?
          6: Statement stmt * conn.createStatement();
7: ResultSet rs1 * stmt.executeQuery("select * from people");
8: ResultSet rs2 * stmt.executeQuery("select * from people");
9: System.out.println(rs1.next() + " * rs2.next());
  1. It prints false false.
  2. It prints true false.
 3. It does not terminate.
  4. It throws a SQLException.
32. How many rows are added to the colors table from running the
     following?
          try (Connection conn = DriverManager.getConnection(url);
    Statement stmt = conn.createStatement()) {
              conn.setAutoCommit(false);
stmt.executeUpdate("insert into colors values ('red')");
stmt.executeUpdate("insert into colors values ('blue')");
conn.rollback();
conn.setAutoCommit(true);
```

```
stmt.executeUpdate("insert into colors values ('green')");
```

- 1. None
- 2. One
- 3. Two
- 4. Three

33. Assuming the clowns database exists and contains one empty table named clowns, what is the output of the following when run using a  $% \left( 1\right) =\left( 1\right)$ JDBC 4.0 driver?

```
import java.sql.*;
public class EmptyTable {
  public static void main (String[] args) throws SQLException { /,
    String url = "jdbc:derby:clowns";
    try (Connection corn = DriverManager.getConnection(url); //
    Statement stmt = conn.createStatement();
    ResultSet rs = stmt.executeQuery("select * from clowns")) .
                        if (rs.next())
                                 System.out.println(rs.getString(1));
       }
```

1. The code terminates successfully without any output.

- 2. The code does not compile due to line  ${\tt s1}$ .
- 3. The code does not compile due to line s2.
- 4. None of the above
- 34. Given the following code snippet and the table below, what is the output of the following when using a driver that supports a scroll sensitive ResultSet?

first_name character varying(255)	last_name character varying(255)
Jeanne	Boyarsky
Janeice	DelVecchio
Elena	Felder
Scott	Selikoff

- 1. Janeice
- 2. Elena
- 3. Scott
- 4. The code throws a  $\ensuremath{\mathsf{SQLException}}$  at runtime.
- 35. Given the following code snippet and the table in question 34, what is the output of the following when using a driver that supports a scroll sensitive ResultSet?

- 1. Jeanne Scott
- 2. Scott Jeanne
- 3. The code compiles, but the output is neither of these.
- 4. The code throws a  $\ensuremath{\mathsf{SQLException}}$  at runtime.
- 36. Given the following code snippet and the table in question 34, what is the output of the following?

- 1. Jeanne Scott
- 2. Scott Jeanne

- $3\!.$  The code compiles, but the output is neither of these.
- 4. The code throws a SQLException at runtime.
- 37. Given that the people table has 10 rows, what is the result of the following when using a driver that supports a scroll sensitive Resultset?

```
String sql = "select count(") from people";
try (Connection conn = DriverManager.getConnection(url);
Statement stmt = conn.createStatement();
ResultSet rs = stmt.executeQuery(sql),
ResultSet.TVPE_SCROLL_SENSITIVE, ResultSet.CONCUR_READ_ONLY))
rs.next();
rs.absolute(0);
// q1
System.out.print(rs.getInt(1));
// q2
}
```

- 1. 10
- 2. The code does not compile.
- 3. Line q1 throws a SQLException.
- 4. Line q2 throws a SQLException.
- $38. \, \text{How many rows}$  are added to the colors table from running the following?

```
try (Connection conn = DriverManager.getConnection(url);
    Statement stmt = conn.createStatement()) {
    conn.setAutoCommit(false);
    stmt.executeUpdate("insert into colors values ('red')");
    stmt.executeUpdate("insert into colors values ('blue')");
    conn.rollback();
    conn.setAutoCommit(true);
    stmt.executeUpdate("insert into colors values ('green')");
    conn.rollback();
}
```

- 1. None
- 2. One
- 3. Two
- 4. Three
- 39. Suppose the ResultSet is scrollable and contains 10 rows. How many times does the following print true?

```
16: System.out.println(rs.absolute(-2));
17: System.out.println(rs.relative(-1));
18: System.out.println(rs.relative(5));
19: System.out.println(rs.relative(5));
```

- 1. Two
- 2. Three
- 3. Four
- 4. None of the above
- 40. What is the correct order to close database resources?
- 1. Connection then  ${\tt Statement}$  then  ${\tt ResultSet}$
- 2. ResultSet then Statement then Connection
- $3\!.$  Statement then Connection then ResultSet
- 4. Statement then ResultSet then Connection





NEXT Chapter 22 Localization

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