# Cuestionario 1

1. In order to return an updatable ResultSet…
   1. The query can select only one column
   2. The query cannot select derived columns or aggregates.
   3. **The SQL query cannot select the resulting columns with \***
   4. The query may select values from several tables
2. Which JDBC interface provides methods to run SQL statements?
   1. Result Set
   2. Driver
   3. **Statement**
   4. Connection
3. From the following options, choose the right one about Statement interface.
   1. Method executeQuery() executes both DML and DDL statements.
   2. Method executeQuery() executes just DML statements.
   3. **Method execute() returns a Boolean**
   4. Method executeUpdate() returns a ResultSet.
4. Which is the JDBC interface to manage transactions?
   1. Interface Statement
   2. Interface ResultSet
   3. **Interface Connection**
   4. Interface Driver
5. Choose from the following, the right sentence about JDBC.
   1. Depending on the database vendor, programmers will need to write different client code to connect to the database
   2. **To create a connection with a database, it just needs a URL containing IP address and port, username, password and driver.**
   3. As it is a Java API, it only runs with ORACLE databases.
   4. JDBC is a high-level API so developers does not need to write database-depending code to access the database.
6. A programmer needs to write a program to access an specific DBMS using JDBC. Then, he will need to implement a specific code to access each DBMS, depending on the vendor.
   1. True
   2. **False**
7. A Scroll-Sensitive ResultSet is aware of
   1. Only internal updates.
   2. Only internal and external updates and deletes
   3. Only internal removes and updates
   4. **Only internal and external updates and internal updates.**
8. Consider an application that uses JDBC to access and retrieve data from a database. An ordered set of actions must be executed in order so it runs properly. Choose the right one, from the following options:
   1. Get a connection to the database; Create a statement; Run the query (DML, DDL); Process results; Release resources; Load the proper database driver
   2. Load the proper database driver; Create a statement; Run the query (DML, DDL); Process results; Release resources
   3. Get a connection to the database; Load the proper database driver; Create a statement; Run the query (DML, DDL); Process results; Release resources
   4. **Load the proper database driver; Get a connection to the database; Create a statement; Run the query (DML, DDL); Process results; Release resources**
9. Para establecer una conexión a la base de datos en JDBC se necesita:
   1. Una URL valida
   2. Un controlador únicamente ya que tiene toda la información para acceder a la base de datos
   3. **Una URL valida, unas credenciales que me den acceso a la base de datos y el controlador.**
10. In Project null-tactics, what happens in those classes not checking ResultSet::wasNull()?
    1. An exception is thrown
    2. None of the above
    3. A random value is printed
    4. **SQL Null is returned as an int 0 and this is the value printed out.**
11. Which of the following is not a JDBC property?
    1. Database independence
    2. Object mapping from/to java to relational DBMS datatype
    3. **Maintainability**
    4. Platform independence
12. Choose the false statement about DataSources
    1. **Changes in the underlying data source affect only client side**
    2. Client applications are easier to write and maintain
    3. Using DataSource increases portability as the client code does not need to contain driver name, server address or port to access the underlying resource.
    4. DataSource can use connection pools, returning connections from the pool to the clients, when they require a Connection object instead of creating a physical one each time
13. From the following options, choose those which describe a forward only ResultSet
    1. Not scrollable, positionable, and not sensitive
    2. Scrollable, positionable, and not sensitive
    3. Scrollable, positionable, and sensitive
    4. **Not scrollable, not positionable, and not sensitive**
14. From the following options, select which is the preferred when the same SQL statement(s) must be executed repeatendly
    1. A CallableStatement object since it is possible to pass arguments at runtime and the DBMS can reuse execution plans
    2. A Statement object since it is possible to pass arguments at runtime and the DBMS can reuse execution plans.
    3. **A PreparedStatement object since it is possible to pass arguments at runtime and the DBMS can reuse execution plans**
    4. None is better than the others