1. What is JDBC?

JDBC is JAVA DataBase Connectivity. It allows you to have a single API for connecting to, manipulating, and retrieving information from a multiple Databases like MySQL, Oracle, and DB2....

1. What is JDBC Driver?

JDBC Driver is used to establish a connection with the database so that you can fetch, update and maintain database tables using SQL queries, once the connection is made using the drivers.

1. What are the differences between the 4 types of Drivers?

JDBC Driver Type Comparison

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Category** | **Type 1** | **Type 2** | **Type 3** | **Type 4 (Fastest JDBC Driver)** |
| **Basic Description** | JDBC to ODBC Bridge | JDBC using Native Methods | Middleware JDBC Drivers | Pure Java Driver |
| **Requires native install on client** | Yes | Yes | No | No |
| **Cross platform** | No | Mostly | Yes | Yes |
| **Supports specific DB features e.g. Oracle Blob** | No | Yes | No | Yes |
| **Requires additional server** | No | No | Yes | No |

1. Is the JDBC-ODBC Bridge multi-threaded?

No. JDBC – ODBC Bridge does not support multithreading (Concurrent execution of several threads). It uses synchronization technique to serialize all of the calls that it makes to ODBC. They won’t get the advantages of multi-threading. However it can face **deadlock issues**.