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ADV. JAVA

JDBC

4.. Driver and Driver Types



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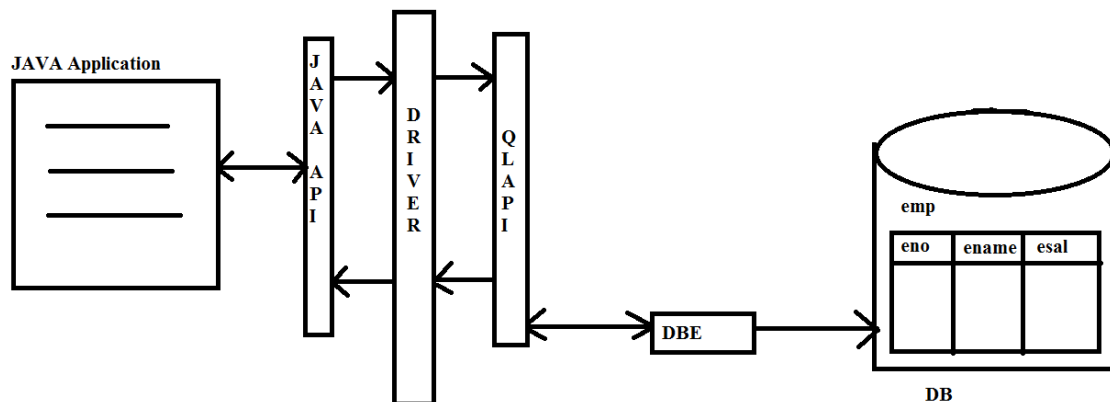
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Driver and Driver Types

- 1)Type 1 Driver
- 2)Type 2 Driver
- 3)Type 3 Driver
- 4)Type 4 Driver

Driver:

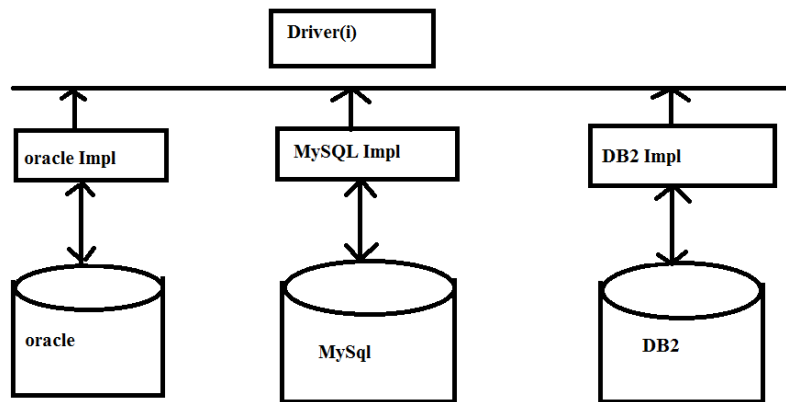
-->Driver is an interface existed between Java application and database to map Java API calls to Query language API calls and Query language API calls to Java API calls.



-->To provide driver as a product Sun Microsystems has provided Driver as an interface and Sun Microsystems lets the database vendors to provide implementation classes to the driver interface as part of their database software's.

-->If we want to use Drivers in JDBC applications then we have to get Driver implementation from the respective database software's.

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-->There are 180+ number of drivers but all these drivers could be classified into the following four types

- 1)Type 1
- 2)Type 2
- 3)Type 3
- 4)Type 4

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1)Type 1 Driver:

-->Type 1 Driver is also called as JDBC-ODBC Driver and Bridge Driver.

-->JDBC-ODBC Driver is a driver provided by Sun Micro Systems as an Implementation to Driver Interface.

-->Sun Microsystems has provided JDBC-ODBC Driver with the inter dependent on the Microsoft's product ODBC Driver.

-->ODBC Driver is a Open Specification, it will provide very good environment to interact with any type of database from JDBC-ODBC Driver.

-->If we want to use JDBC-ODBC Driver in our JDBC Applications first we have to install the MicroSoft Product ODBC Driver native library.

-->To interact with the database from Java Application if we use JDBC-ODBC Driver then we should require two types conversions so that JDBC-ODBC Driver is Slower Driver.

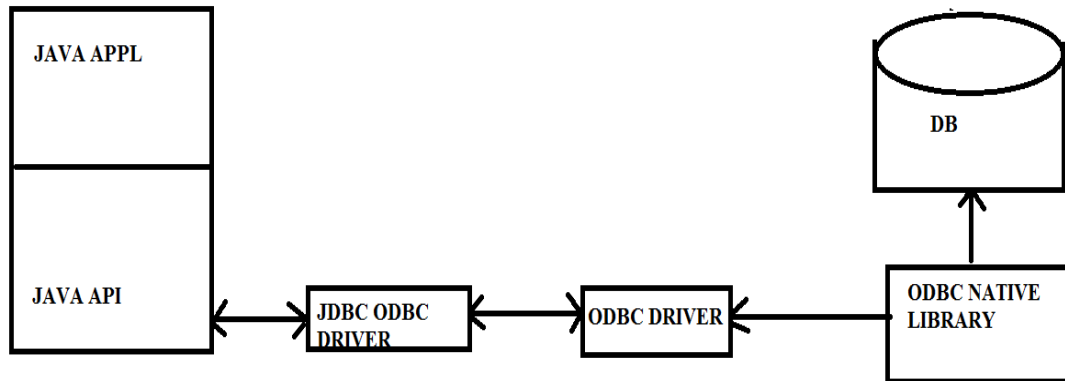
-->JDBC-ODBC Driver is highly recommended for stand alone applications, it is not suitable for web applications, distributed applications and so on.

-->JDBC-ODBC Driver is suggestable for Simple JDBC applications, not for complex JDBC applications.

-->The portability of the JDBC-ODBC Driver is very less.



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2)Type 2 Driver:

-->Type 2 Driver is also called part java,part native driver that is Type 2 Driver was implemented by using Java implementations and the database vendor provided native library.

-->When compared to Type1 Driver Type2 Driver is faster Driver because it should not require two times conversions to interact with the Database from Java Applications.

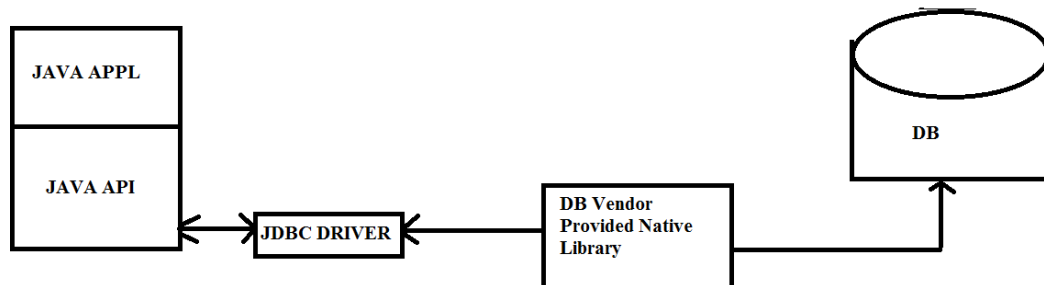
-->When compared to Type1 Driver Type2 driver portability is more.

-->Type2 Driver is still recommended for standalone application not suggestible for web applications and Enterprise applications.

-->If we want to use Type2 Driver in our Jdbc applications then we have to install the database vendor provided native library.

-->Type2 Driver is cast full Driver among all the drivers.

-->Type2 Driver's portability is not good when compared to Type3 Driver and Type4 Driver.



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3)Type 3 Driver:

-->Type 3 Driver is also called as MiddleWare DataBase Server Access Driver and NetWorkDriver.

-->Type 3 Driver is purely designed for Enterprise applications it is not suggestible for stand alone applications.

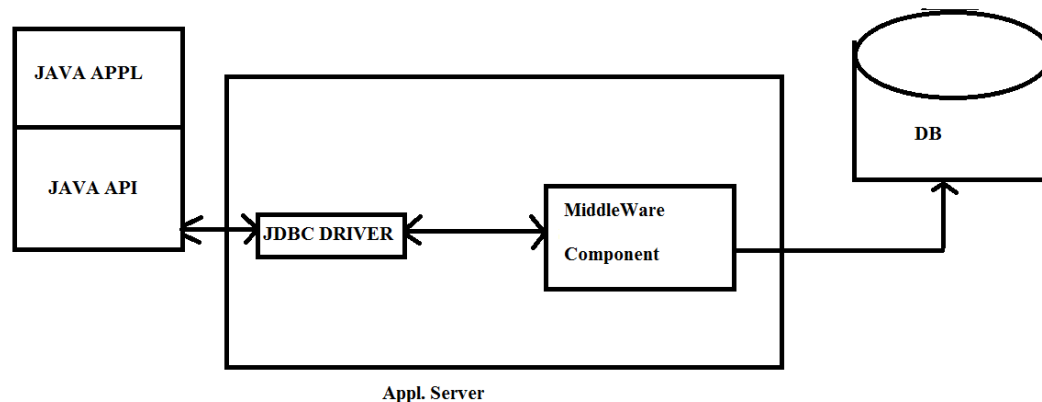
-->Type 3 Driver portability is very good when compared to Type1 and Type2 Driver's.

-->Type 3 Driver will provide very good environment to interact with multiple no.of databases.

-->Type 3 Driver will provide very good environment to switch from one database to another database without having modifications in client applications.

-->Type 3 Driver should not require any native library installations, it should require the Compatibility with the application server.

-->Type 3 Driver is fastest Driver when compared to all the Drivers.



4)Type 4 Driver:

-->Type 4 Driver is also called as pure Java Driver and Thin Driver because Type 4 Driver was implemented completely by using java implementations.

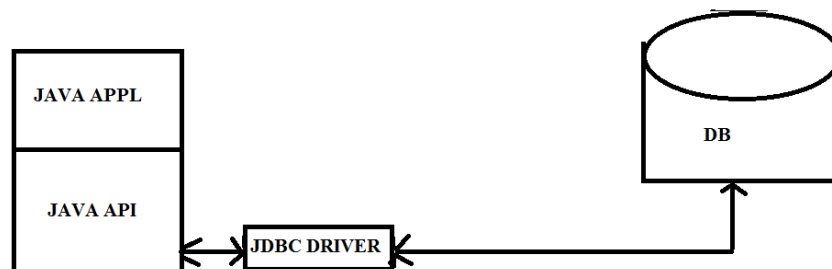
-->Type 4 Driver is the frequent used Driver when compared to all the remaining Drivers.

-->Type 4 Driver is recommended for any type application includes standalone applications, Network Applications....

-->Type 4 Driver portability is very good when compared to all the remaining Drivers.

-->Type 4 driver should not require any native library dependences and it should require one time conversion to interact with database from Java Applications.

-->Type 4 is the cheapest Driver among all.



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