

## JAVA WITH JDBC COURSE

# CURRICULUM JAVA PROGRAMMING



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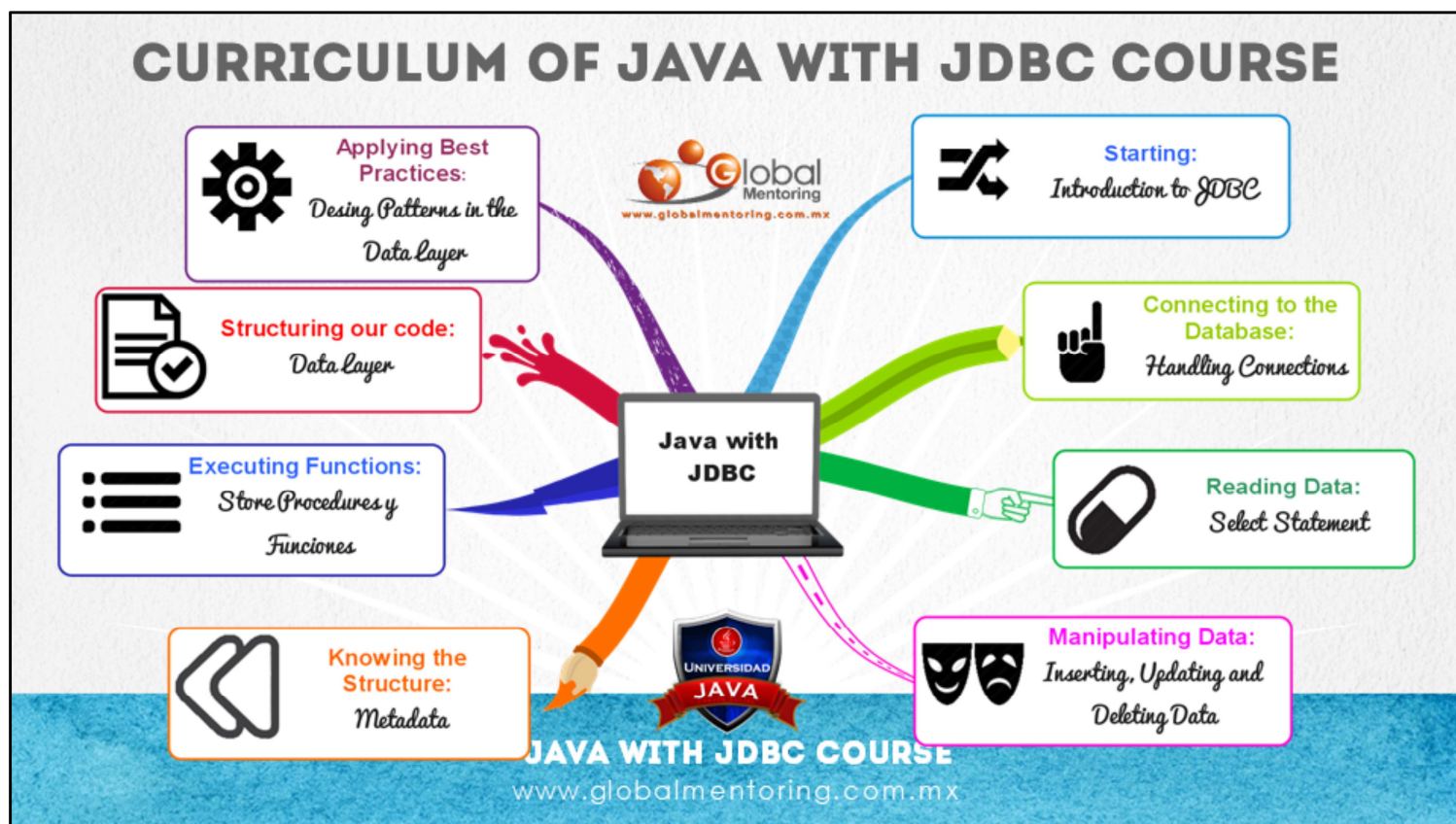
JAVA WITH JDBC COURSE

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Hello, I hope you're ready to begin.

Let's review the general agenda of the JAVA WITH JDBC COURSE.

Are you ready? Let's go!



We are going to review the general content of the Java course with JDBC:

**Starting.- Introduction to JDBC:** In this section we will see an introduction to the SQL language and JDBC technology, both technologies are what we will be using throughout the course. We will also carry out the installation of the tools and databases that we will use throughout the course. In turn, we will create the first Java project with JDBC.

**Connecting to the Database with JDBC.- Handling Connections:** In this section we will review in more detail the management of JDBC. We will see the driver concept to connect to a database using Java with JDBC. We will also review the types of sentences that we have available in JDBC to communicate with the database. Likewise, we will review the handling of exceptions in JDBC, and create some exercises to put into practice the management of JDBC.

**Reading Data.- Select Statements:** We will review the statements with JDBC that will allow us to read data from the database, that is, the SELECT statement.

**Manipulating Data.- Inserting, Updating and Deleting Data:** In this section we will see the JDBC statements that will allow us to insert, update and delete information from a database. We will study the syntax of each one and create several exercises to learn each one of these concepts.

**Knowing the Structure.- Metadata:** In this section we will define the concept of metadata and see how it can help us in our programs with JDBC. We will create several exercises to put these concepts into practice.

**Executing Functions: Store Procedures:** We will define what is a Store Procedure and what is a function of a database, we will use the Oracle database as a database manager to execute a method and a Store Procedure in Oracle from Java using JDBC. We will create several exercises to put these concepts into practice.

**Structuring our code.- Data Layer :** Aprenderemos el concepto de capa de datos, y crearemos una utilizando Java y JDBC. Crearemos un ejercicio para poner en práctica este concepto.

**Applying Best Practices.- Design patterns in the Data Layer:** We will study the design pattern concept, and we will look at the DAO (Data Access Object) and DTO (Data Transfer Object) design patterns to add them to our data layer. We will also see how to create a pool of connections to our connectivity with the database and we will see how to connect to different databases such as MySQL and Oracle. We will create several exercises to make these concepts clear.

This is the general agenda of the JAVA WITH JDBC COURSE. These are just some of the many more topics we will learn throughout this course. So if you're ready, let's start immediately.

# ONLINE COURSE

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At Global Mentoring, we promote the passion for Java Technology. We invite you to visit our website where you will find Java Online courses from Basic, Intermediate and Advanced Levels, and thus become an expert Java programmer.

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