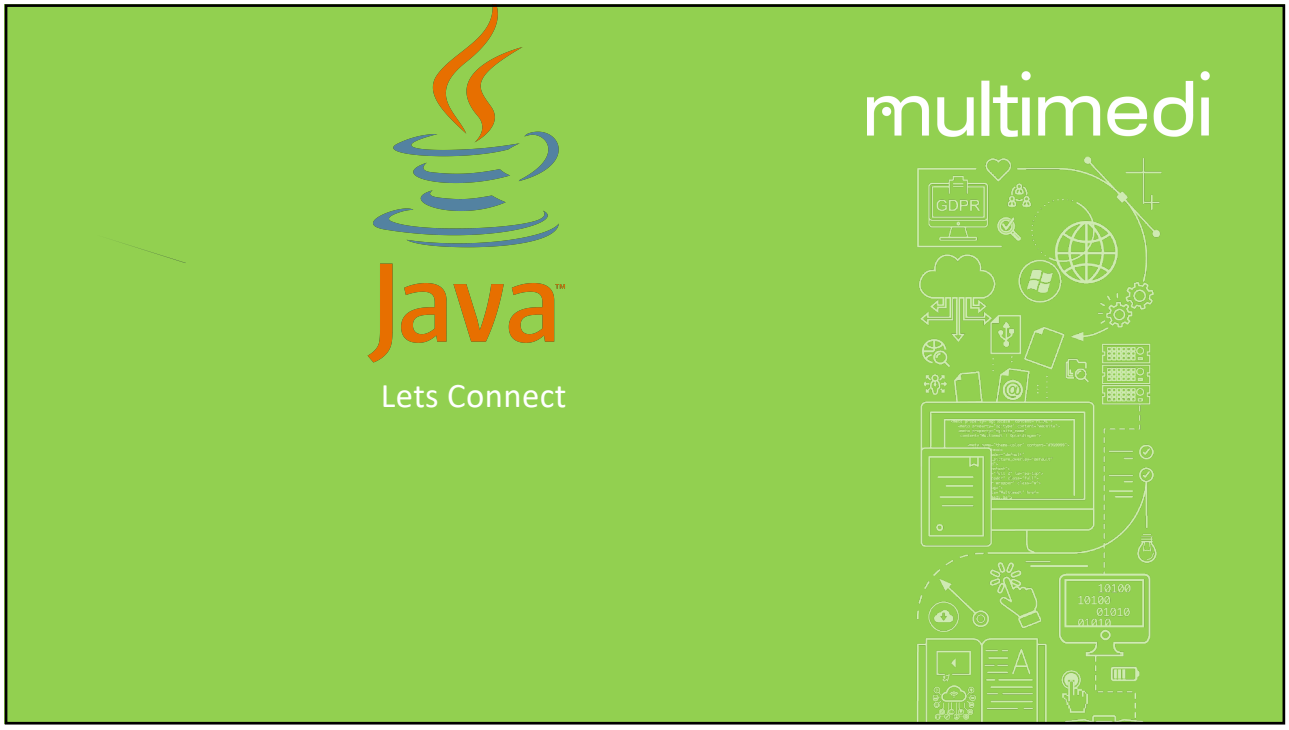

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Verbinding maken

- Java code verbinden met MySQL
  - Driver inladen
  - Connectie maken
  - Project instellen

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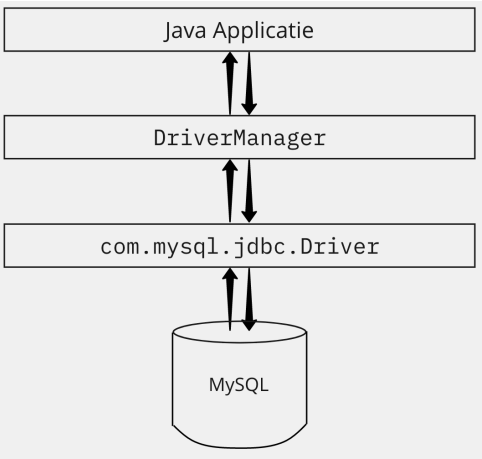
Database Driver

- Abstractie
  - Universele Interface
  - java.sql.DriverManager
    - Statische Methoden
    - DB Drivers registreren
      - DriverManager.registerDriver()
      - JDBC-Drivers = automatisch bij inladen JVM
- Inladen JVM
  - Class.forName()
    - Enkel nog bij Webapplicaties
  - Automatisch in JDBC 4.0+ en JDK6+



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Connecteren

- Connect -> communicatie DB
- DriverManager
  - getConnection(url, login, password): Connection
    - url = jdbc:subprotocol:subname
      - jdbc = jdbc driver
      - protocol = SQL dialect
      - subname = host + DBname
    - login = gebruikersnaam DB
    - password = wachtwoord DB
  - Implementatie Connection
    - Interface
    - AutoCloseable

```
jdbc:mariadb://javadev-training.be/javadevt_Lf001
```

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Eerste JDBC project

Getting hooked on that data

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POM

- Afhankelijkheid
  - groupId : org.mariadb.jdbc
  - artifactId : mariadb-java-client
  - version : 2.4.1

```
<dependency>
    <groupId>org.mariadb.jdbc</groupId>
    <artifactId>mariadb-java-client</artifactId>
    <version>2.4.1</version>
</dependency>
```

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module-info.java

- java.sql pakket nodig
  - java.sql importeren

```
module be.learningfever.jdbclessons {
    requires java.sql;
}
```

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Eerste Connectie Klasse

- Open connectie
  - print OK bij succes
  - print fail bij Exception

```
package be.learningfever.jdbclessons.firstconnection

import java.sql.*;
public class FirstConnection {
   public static void main(String[] args) {
      try (
         Connection con = DriverManager.getConnection(
            “jdbc:mariadb://javadev-training.be/javadevt_Lf001”,
            ”javadevt_StudLf”,
            “STUDENTlf2020”
      ) {
         System.out.println(“Connection OK”);
      }
      catch (Exception e) {
         System.out.println(“Oeps, that didn’t go as planned!”);
         e.printStackTrace(System.err);
      }
   }
}
```

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Connect

And we will show you the world!

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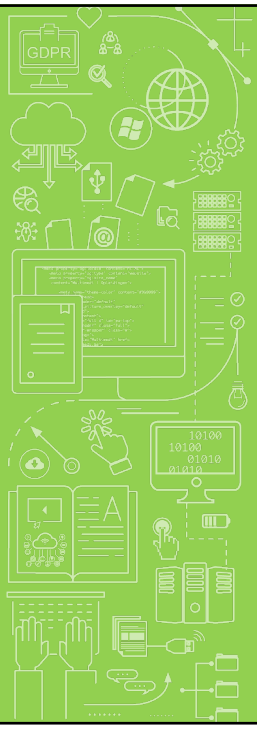

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