Java Database Connections

Oracle Database Connection

Connection URL

```
jdbc:oracle:thin:@<hostname>:<port>:<SID>
```

ORACLE®
DATABASE

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class OracleConnection {
    public static void main(String[] args) {
        String jdbcUrl = "jdbc:oracle:thin:@192.168.1.100:1521:ORCL";
        String username = "your_username";
        String password = "your_password";

        try {
            Connection connection =
DriverManager.getConnection(jdbcUrl, username, password);
            System.out.println("Connected to Oracle Database!");
            // Use the connection for database operations
            connection.close();
        } catch (SQLException e) {
            System.out.println("Connection to Oracle Database
failed!");
            e.printStackTrace();
        }
    }
}
```

MySQL Database Connection

Connection URL

```
jdbc:mysql://<hostname>:<port>/<database>
```

MySQL

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class MySQLConnection {
    public static void main(String[] args) {
        String jdbcUrl = "jdbc:mysql://localhost:3306/mydb";
        String username = "your_username";
        String password = "your_password";

        try {
            Connection connection = DriverManager.getConnection(jdbcUrl,
username, password);
            System.out.println("Connected to MySQL Database!");
            // Use the connection for database operations
            connection.close();
        } catch (SQLException e) {
            System.out.println("Connection to MySQL Database failed!");
            e.printStackTrace();
        }
    }
}
```
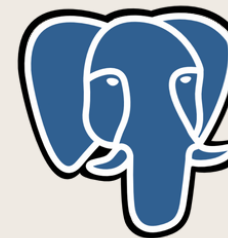
PostgreSQL Database Connection

Connection URL

```
jdbc:postgresql://<hostname>:<port>/<database>
```

PostgreSQL

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class PostgreSQLConnection {
    public static void main(String[] args) {
        String jdbcUrl = "jdbc:postgresql://localhost:5432/mydb";
        String username = "your_username";
        String password = "your_password";

        try {
            Connection connection = DriverManager.getConnection(jdbcUrl,
username, password);
            System.out.println("Connected to PostgreSQL Database!");
            // Use the connection for database operations
            connection.close();
        } catch (SQLException e) {
            System.out.println("Connection to PostgreSQL Database
failed!");
            e.printStackTrace();
        }
    }
}
```

Azure SQL Database Connection

curiouslearner

@mayankahuja

Maven Dependency

```xml
<dependency>
    <groupId>com.microsoft.sqlserver</groupId>
    <artifactId>mssql-jdbc</artifactId>
    <version>9.4.0.jrell</version>
</dependency>
```

Just a sample version

SQL

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class AzureSQLConnection {
    public static void main(String[] args) {
        String jdbcUrl =
"jdbc:sqlserver://myazureserver.database.windows.net:1433;database=mydb";
        String username = "your_username";
        String password = "your_password";

        try {
            Connection connection = DriverManager.getConnection(jdbcUrl,
username, password);
            System.out.println("Connected to Azure SQL Database!");
            // Use the connection for database operations
            connection.close();
        } catch (SQLException e) {
            System.out.println("Connection to Azure SQL Database
failed!");
            e.printStackTrace();
        }
    }
}
```

Just a sample URL