

# Connecting and Querying the Database



**Bryan Hansen**

@bh5k



```
<dependency>  
  <groupId>mysql</groupId>  
  <artifactId>mysql-connector-java</artifactId>  
  <version>8.0.28</version>  
</dependency>
```

**JDBC Driver**

```
String url = "jdbc:mysql://localhost:3306/library_db";  
String username = "root";  
String password = "pass";  
  
Connection con = DriverManager.getConnection (url,  
username, password);
```

## **DriverManager**

# AbstractDao.java

```
public class AbstractDao {  
  
    protected Connection getConnection () {  
        String url = "jdbc:mysql://localhost:3306/library_db";  
        String username = "root";  
        String password = "pass";  
  
        Connection con = DriverManager.getConnection (url, username,  
            password);  
  
    }  
}
```

# Dao.java

```
public interface Dao<T> {  
  
    Optional<T> findById(long id);  
    List<T> findAll();  
    void save(T t);  
    void update(T t, String[] params);  
    void delete(T t);  
  
}
```

# Summary

JDBC Driver

Driver Manager

Dao

AbstractDao