

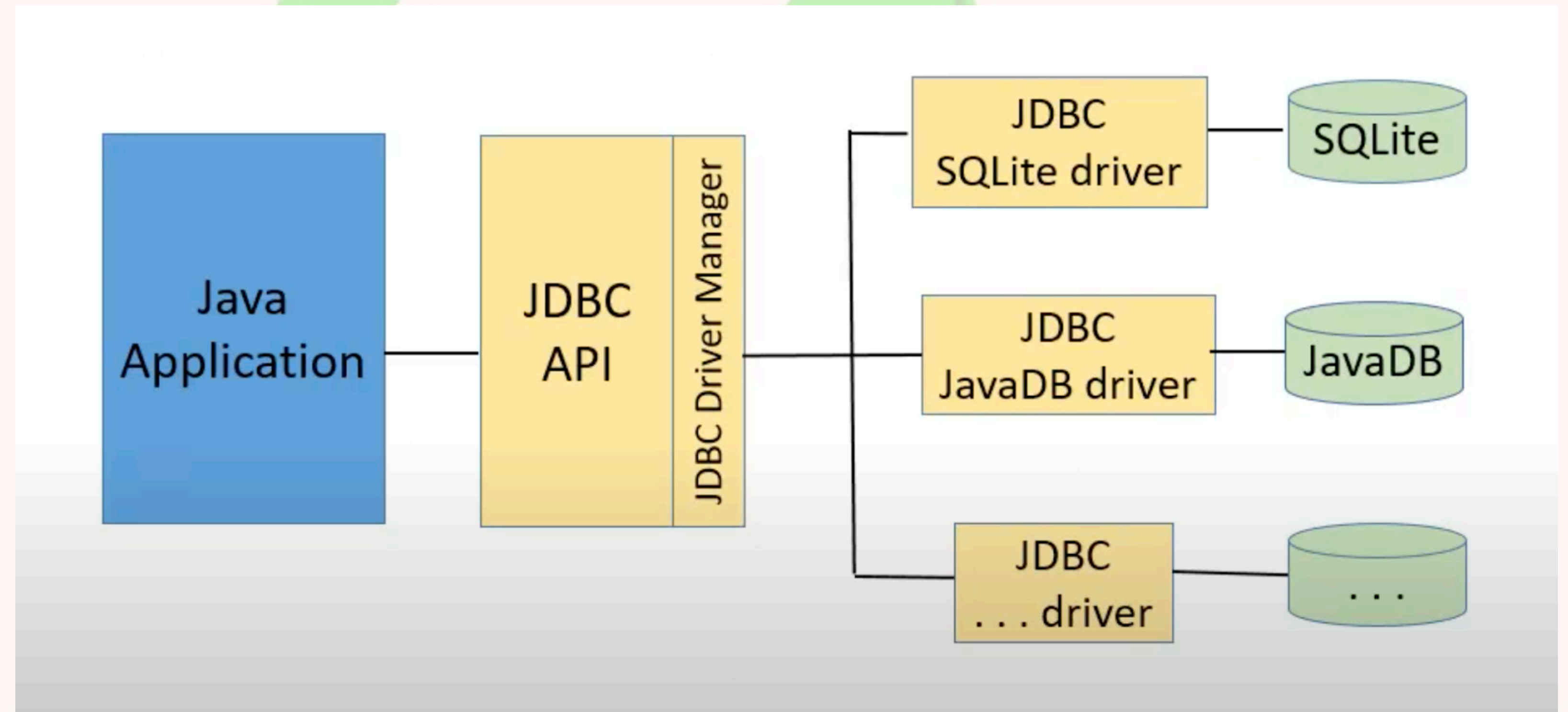
BUYUK RESIM- JDBC NEDIR



TECHPROE

JDBC= JAVA DATABASE CONNECTIVITY

- **JDBC Driver i kullanılır**
- **Farkli databaseler icin farklı driverlar kullanilir**
- **sql developer, portgre sql,etc...gibi toollar database testing icin kullanılabilir**
- **JDBC automasyon icin kullanilir**



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NEDEN JDBC KULLANILIR

➤ 1. Database baglanma

- `connection=DriverManager.getConnection("url", "kullaniciAdi", "sifre");`

➤ 2. Query gonderip data alma

- `statement=connection.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE, ResultSet.CONCUR_READ_ONLY);`

➤ 3. Bu dataları test caselerde kullanıp assertion yapma. ResultSet objesiyle datayı kullanırız.

- `resultSet = statement.executeQuery("SELECT * FROM Book;");`
- `String beklenenDeger = resultSet.getString("BookName");`
- `Assert.assertEquals(beklenenDeger, gercekDeger);`

BAZI DATA ALMA METODLARI

- **resultSet.getRow() => Hangi rowdasin**
- **resultSet.first() => İlk rowa git**
- **resultSet.last => son row a git**
- **resultSet.absolute(5)=> 5inci row a git**
- **resultSet.getObject("BookName") =>BookName row daki objeyi ver**
- **resultSet.getString("BookName") =>BookName row daki degeri ver**

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DATABASE TESTING I NASIL YAPTIN?

➤ **UI daki(Front End) ve Database(Bach End) deki degerlerin ayni olup olmadigini database testing yapilir**

➤ **Database testing UI testing e gore cok hizli**

➤ **Ornek:** UI dan girilen **datalarin okunmasi** ve Bu datalarin dogrulanmasi(Assertion)

➤ **Ornek:** Database e gönderilen dataların UI da olup olusmadiginin dogrulanmasi(Assertion)

➤ **Extra ornekler:**

➤ Ornek1: Kayıt formuna girilen kullanıcı adi ve şifrenin database de oluşması

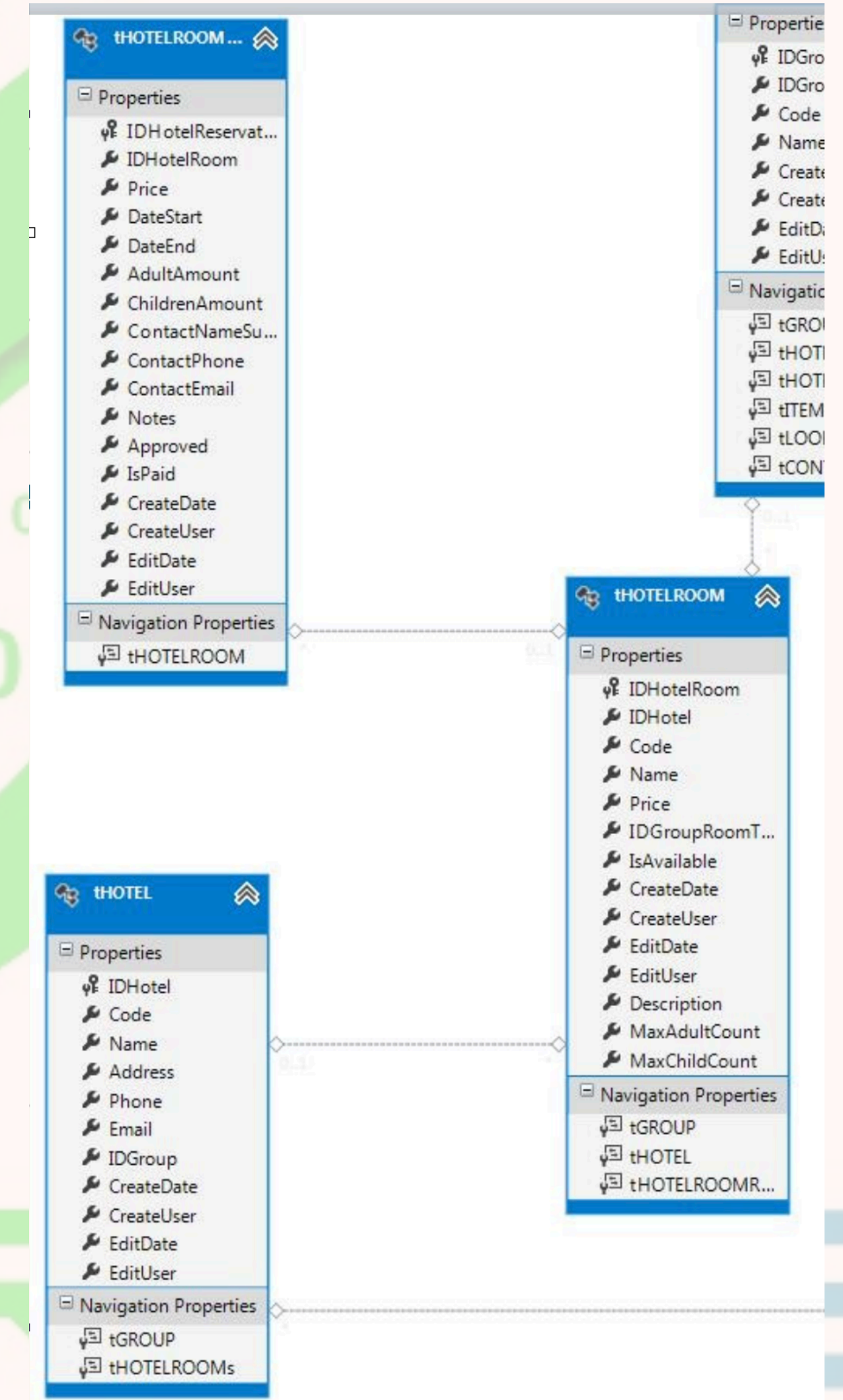
➤ Ornek2: Database den girilen bir datanın UI da bulunup bulunmadigini test icin

➤ Ornek 3: UI da yapılan degisikligim database de olup olmadigi, yazilarin degismesi gibi

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SCHEMA

- Bu bizim schema
- Tablelar primary key lie birbirlerine baglidir
- Isimler net anlasilabilit olmayabilir
- Database tester lar shemayi database anlamak, quarileri ona gore yazmak icin kullanir



DATA TIPLERİ

PlayNWPLSK12SQL15....edb - dbo.tHOTEL			
	Column Name	Data Type	Allow Nulls
🔑	IDHotel	int	<input type="checkbox"/>
	Code	nvarchar(50)	<input checked="" type="checkbox"/>
	Name	nvarchar(50)	<input checked="" type="checkbox"/>
	Address	nvarchar(250)	<input checked="" type="checkbox"/>
	Phone	nvarchar(50)	<input checked="" type="checkbox"/>
	Email	nvarchar(50)	<input checked="" type="checkbox"/>
	IDGroup	int	<input checked="" type="checkbox"/>
▶	CreateDate	datetime	<input checked="" type="checkbox"/>
	CreateUser	int	<input checked="" type="checkbox"/>
	EditDate	datetime	<input checked="" type="checkbox"/>
	EditUser	int	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

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DATABASE BAĞLANMAK ICIN ADAMLAR(ESKI BILGILER)

> 1. Add Maven Dependency:

```
<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
<dependency>
  <groupId>mysql</groupId>
  <artifactId>mysql-connector-java</artifactId>
  <version>8.0.19</version>
</dependency>
```

> 2. Connect to MySQL Database

```
Connection Url = jdbc:mysql://+HOST+": "+PORT+"/DATABASENAME";
HOST           = 107.182.225.121
PORT          = 3306
DB Name       = LibraryMgmt
username      = techpro
password      = tchpr2020
```

> Our connection data:

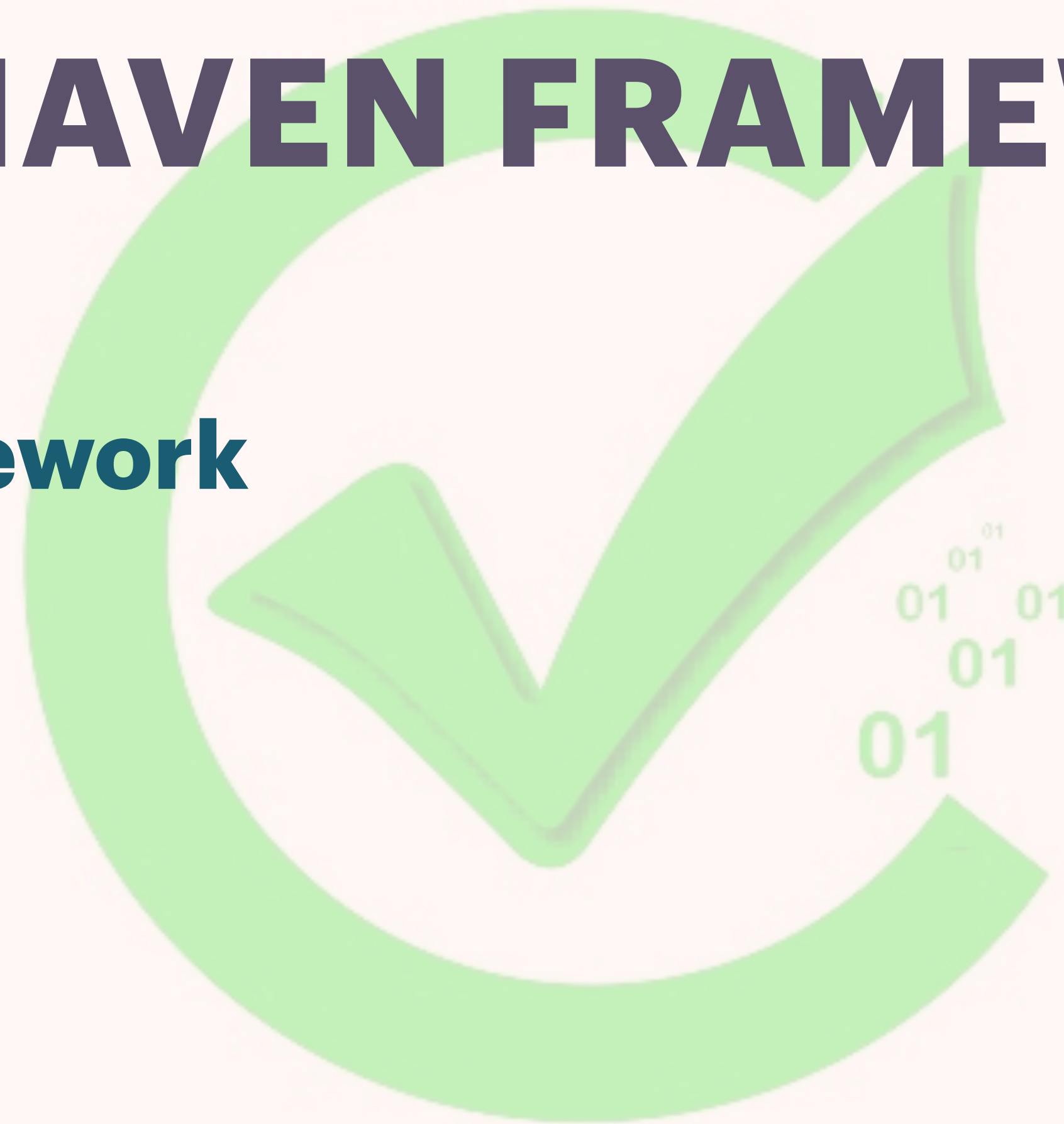
```
String url = "jdbc:mysql://107.182.225.121:3306/LibraryMgmt";
String username = "techpro";
String password = "tchpr2020";
```

> 3. Write need statement object ro write the queries

```
Stament stament= connection.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE, ResultSet.CONCUR_READ_ONLY);
statement.executeQuery("SELECT * FROM Book;");
```

CREATE A MAVEN FRAMEWORK

➤ **Create a JUnit framework**



TECHPRO

MY SQL SERVER

- **KaolaPlace ve FHC Trip my sql server e bagli**

TECHPRODE

DATABASE UTILITIES

- **This utilities class is in the utilities folder. The reason is to keep the test classes clean avoid repeatation**
- **This class has reusable methods, similar to Driver or Test Base class**
- **For example, we have createConnection() method in this class. We can call this class whenever we need.**

DERS NOTLARI

- 1.junit projesi olustur
- 2.pom.xml file a dependencyleri ekle
- 3.java folder da gerekli folder lari olusturmak
- 4.utilities folder olustur ve DBUtils classi olustur ve DBUtils classa olusturulan cutom methodlari yapistirin
- 5.tests folderi olustur
- 6. DBUtilsTest java sinifi olustur ve DBUtils deki hazir methodlari kullanarak islem yap
- 7. Java Sinifi Olustur: ReadData
- 8. Java sinifi olustur : UpdateData
- 9. Java sinifi olusture : CreateData

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