

1. Create database springDemo with user table with fields
 - (a) username
 - (b) password
 - (c) name
 - (d) age
 - (e) dob

```
mysql> create database springDemo;
Query OK, 1 row affected (0.03 sec)

mysql> use springDemo;
Database changed
mysql> create table user
  -> (username VARCHAR(100),
  -> password VARCHAR(100),
  -> name VARCHAR(100),
  -> age INT,
  -> dob DATE)
  -> ;
Query OK, 0 rows affected (0.33 sec)

mysql>
```

2. Insert few records inside user Tables

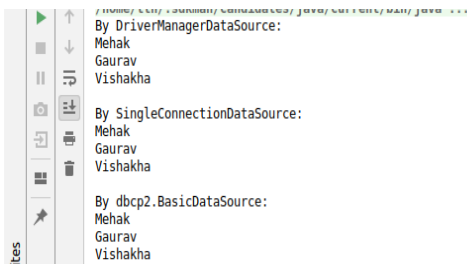
```
mysql> insert into user values("spring1","spring1","Mehak",23,'1990-01-16');
Query OK, 1 row affected (0.09 sec)

mysql> insert into user values("spring2","spring2","Gaurav",23,'1991-01-26');
Query OK, 1 row affected (0.08 sec)

mysql> insert into user values("spring3","spring3","Vishakha",25,'1991-11-26');
Query OK, 1 row affected (0.04 sec)

mysql>
```

3. Use datasource with DriverManagerDataSource, dbcp2.BasicDataSource and SingleConnectionDataSource to print the records of user tables

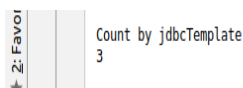


```
By DriverManagerDataSource:
Mehak
Gaurav
Vishakha

By SingleConnectionDataSource:
Mehak
Gaurav
Vishakha

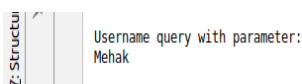
By dbcp2.BasicDataSource:
Mehak
Gaurav
Vishakha
```

4. Use JdbcTemplate to get the count of users



```
Count by jdbcTemplate
3
```

5. Get name of the user by providing username to the parametrized query



```
Username query with parameter:
Mehak
```

6. Insert one record using JdbcTemplate

Structure
Insertion using jdbcTemplate:
Mehak
Gaurav
Vishakha
Sidharth

7. Use QueryForMap to fetch the user details of the user

rites
Query for map:
{username=spring2, password=spring2, name=Gaurav, age=23, dob=1991-01-26}

8. Use QueryForList to fetch records of all users

2: Favorit
Query for list:
[{username=spring1, password=spring1, name=Mehak, age=23, dob=1990-01-16}, {username=spring2, password=spring2, name=Gaurav, age=23, dob=1991-01-26}, {username=spring3,

9. Use a rowmapper to get the User object when you query for a user

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Row Mapper:
User{username='spring1', password='spring1', name='Mehak', age=23, dob='1990-01-16'}

10. Integrate Hibernate with Spring and use hql query to count the number of records in user table.

structure
Spring ORM:
4

11. Use @Transactional to save to save 2 records using jdbc template with the following propagation options

- REQUIRED
- REQUIRES_NEW
- NESTED
- MANDATORY
- NEVER
- NOT_SUPPORTED
- SUPPORTS

Adding 2 user : No. of rows Added : 1

12. Demonstrate the use of following options of @Transactional annotation

- read-only
- timeout
- rollback-for
- no-rollback-for

Demonstrating read-only,timeout,rollback-for,no-rollback-for.No. of rows Added : 1
No. of rows Added : 1
No. of rows Added : 1
Exception in thread "main" java.lang.ArithmeticException
at com.ttn.repository.UserRepo.insert4(UserRepo.java:46)

Database