Spring Data JPA with Hibernate Part 1 Exercise

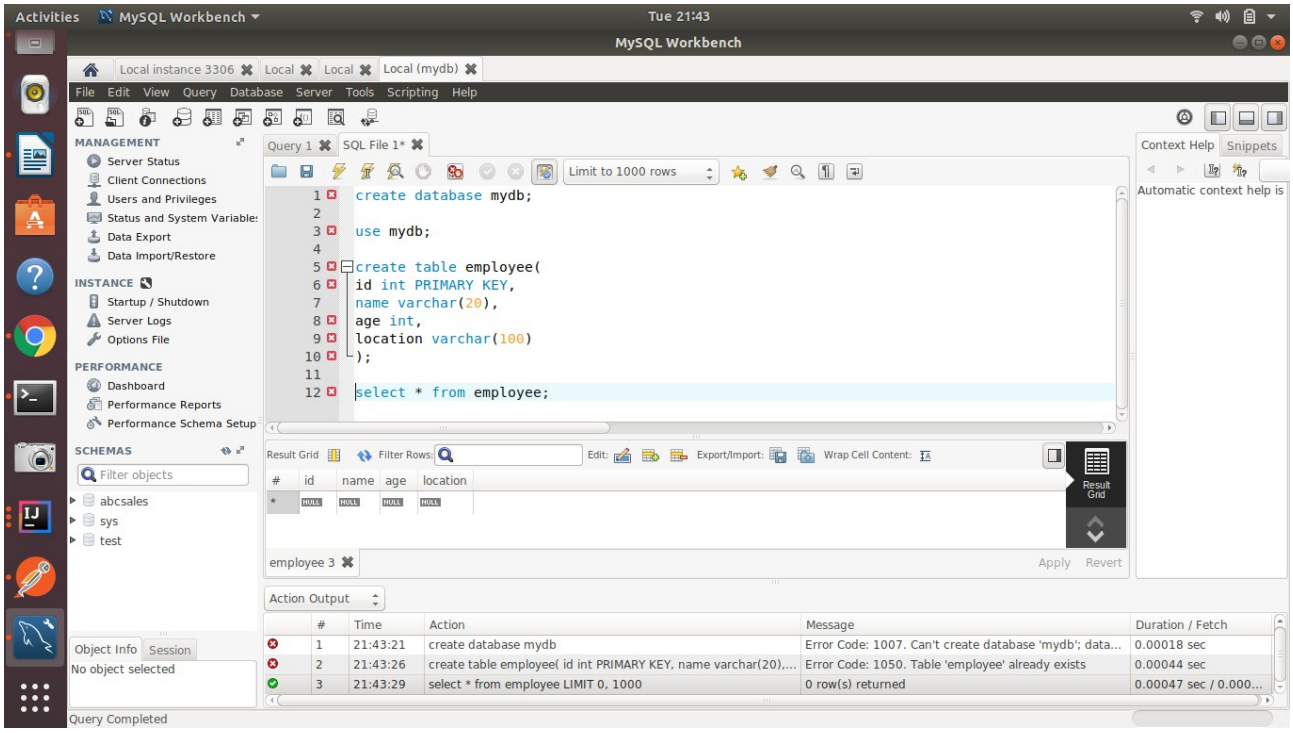
1) Create an Employee Entity which contains following fields

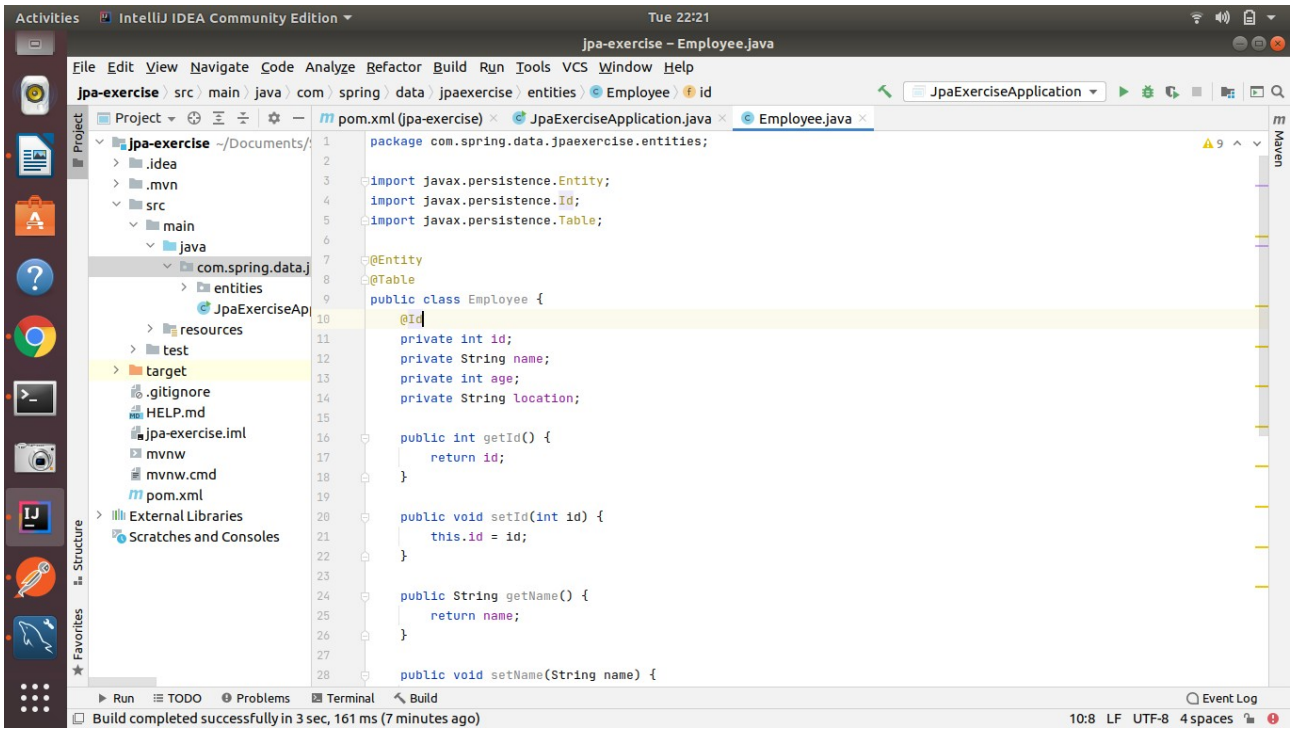
Name

Id

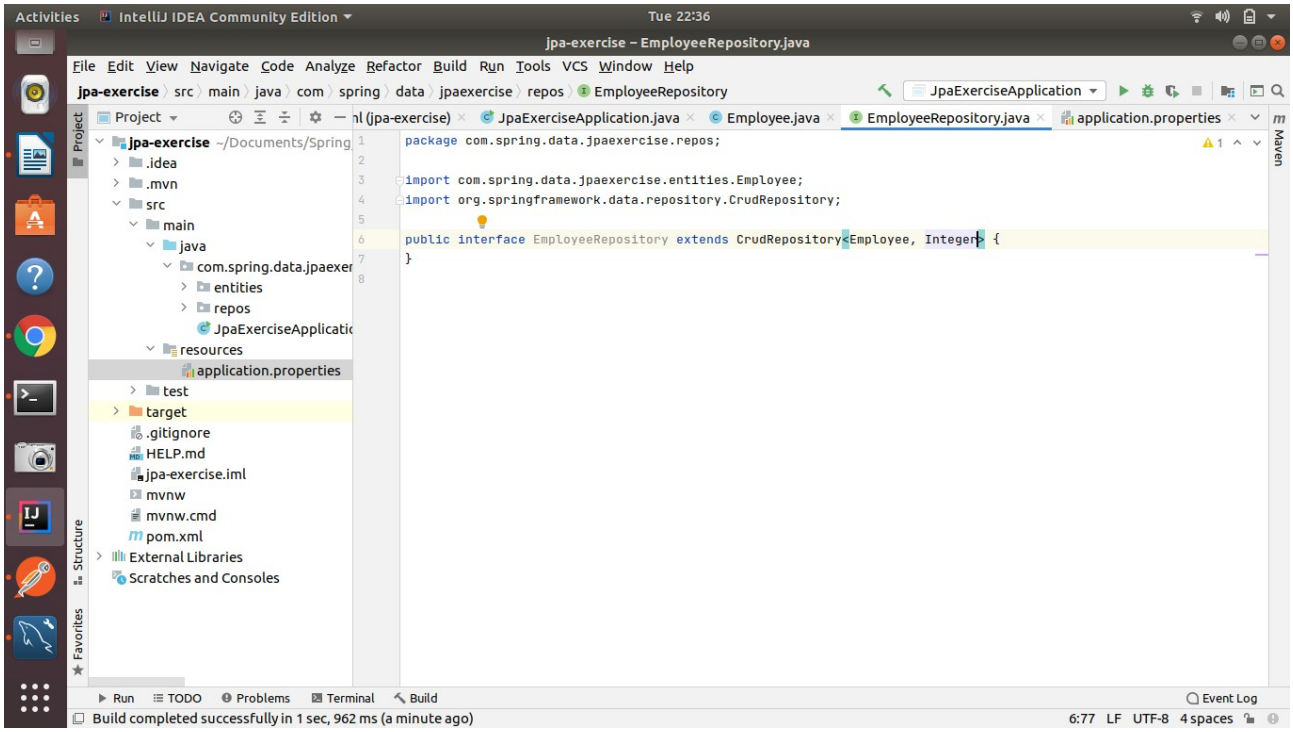
Age

Location



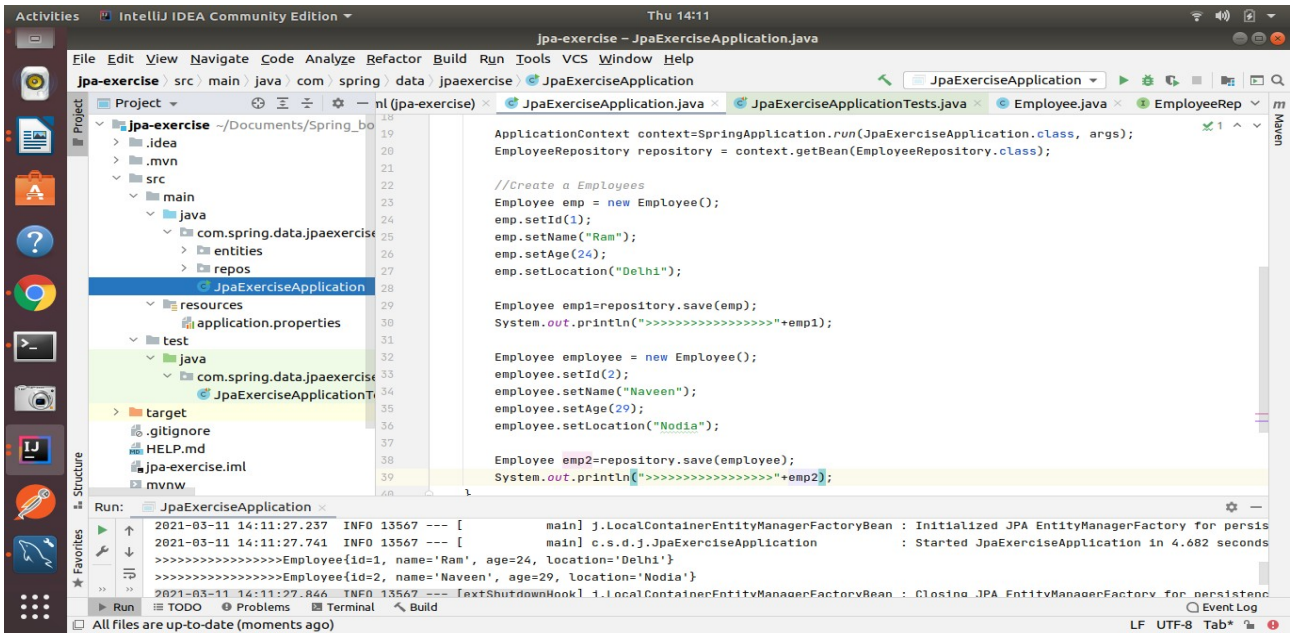


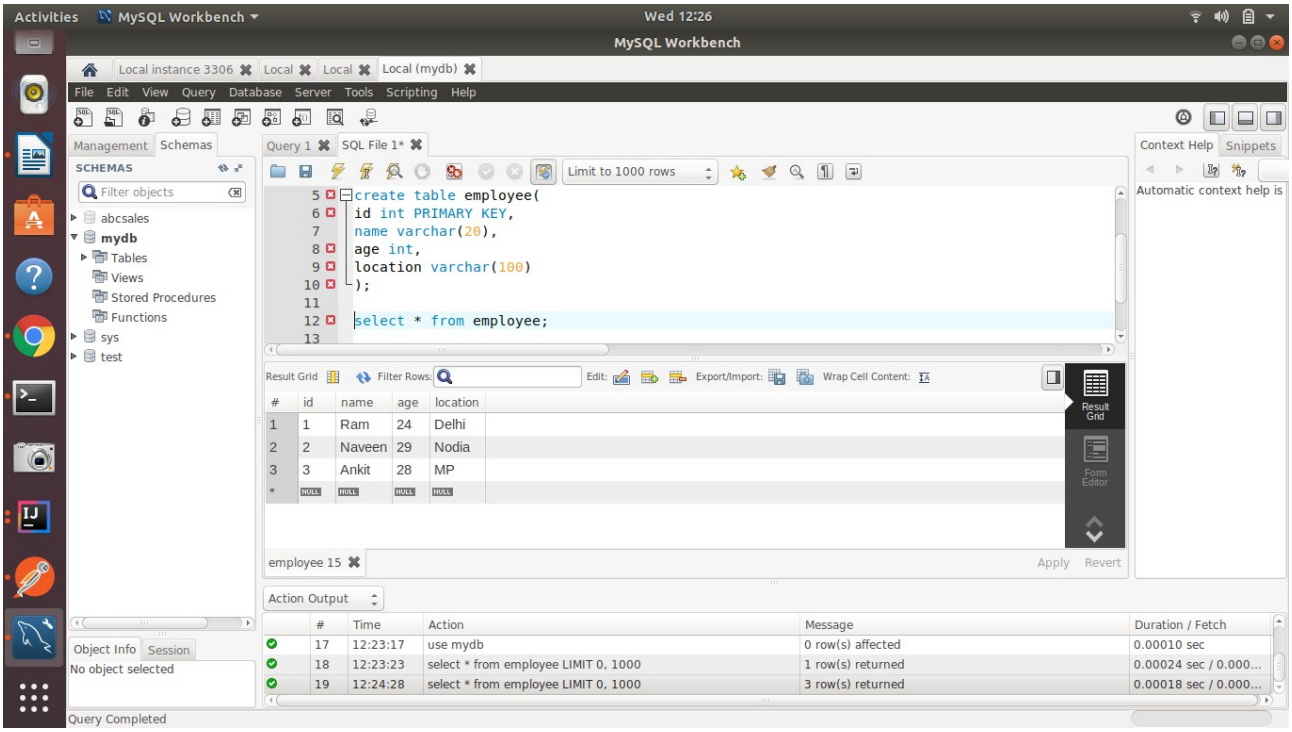
(2) Set up EmployeeRepository with Spring Data JPA



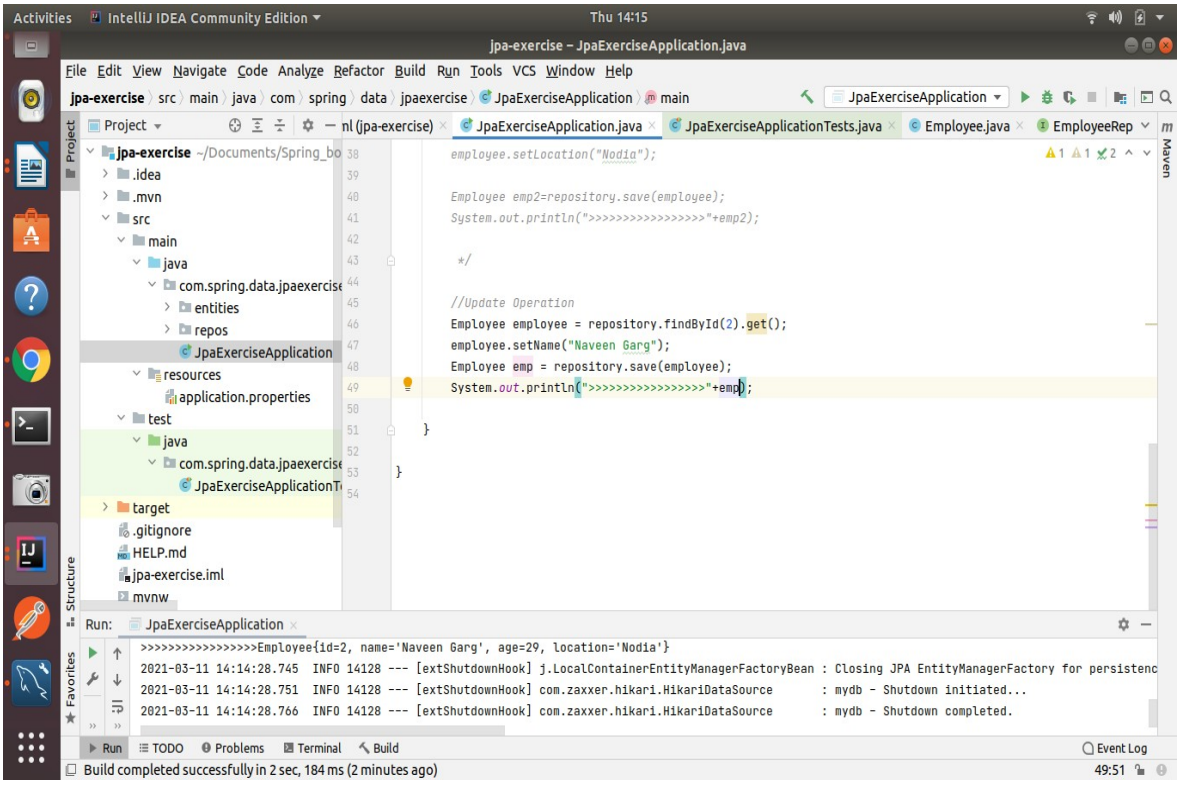

```
spring.datasource.name=mydb
spring.datasource.url=jdbc:mysql://localhost:3306/mydb?serverTimezone=UTC
spring.datasource.username=root
#spring.datasource.password=ttn
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL5Dialect
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show.sql=true
```

(3) Perform Create Operation on Entity using Spring Data JPA





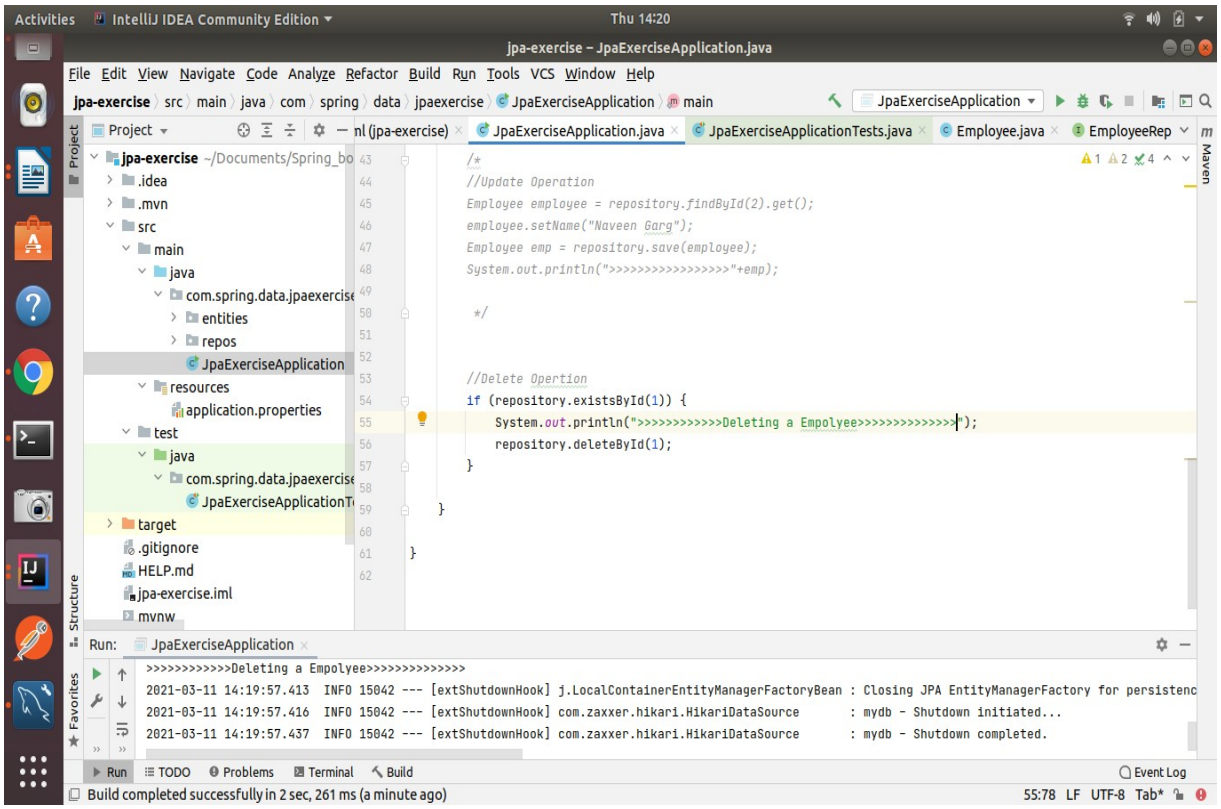
(4) Perform Update Operation on Entity using Spring Data JPA



Result Grid | Filter Rows: | Edit:

#	id	name	age	location
1	1	Ram	24	Delhi
2	2	Naveen Garg	29	Nodia
3	3	Ankit	28	MP
*	NULL	NULL	NULL	NULL

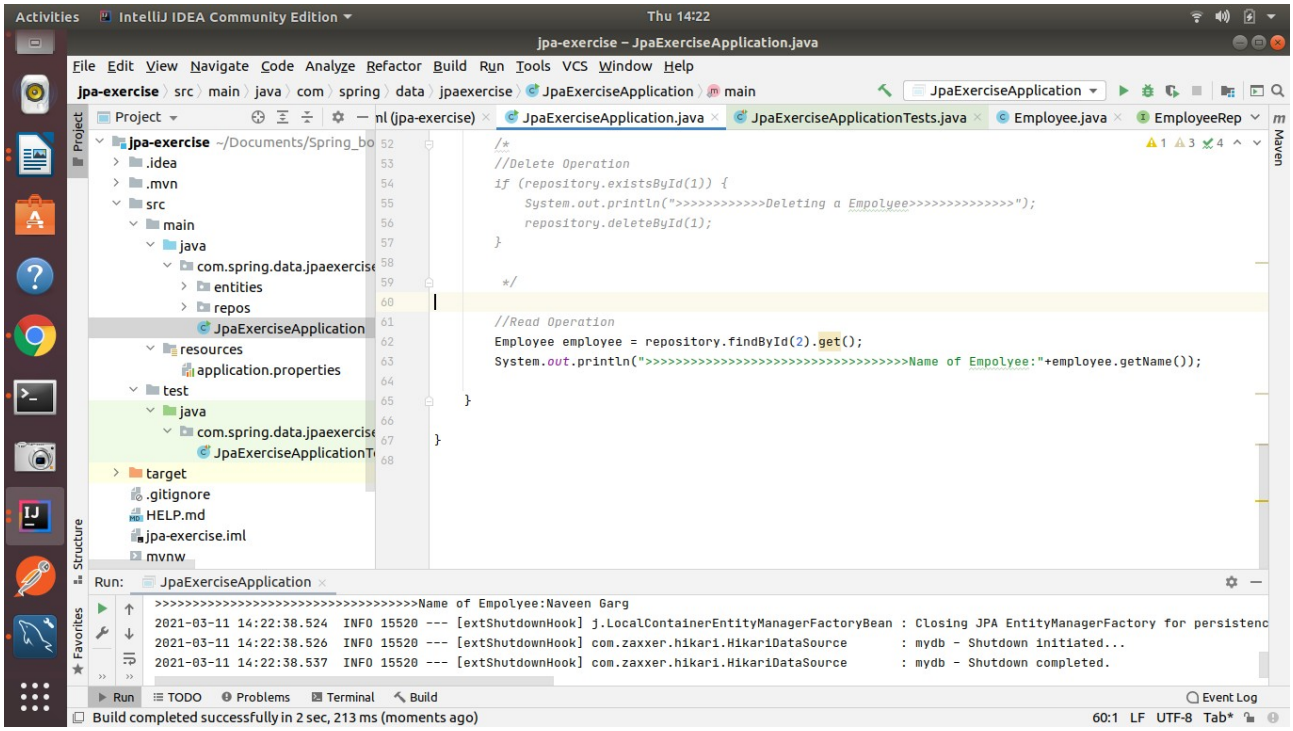
(5) Perform Delete Operation on Entity using Spring Data JPA



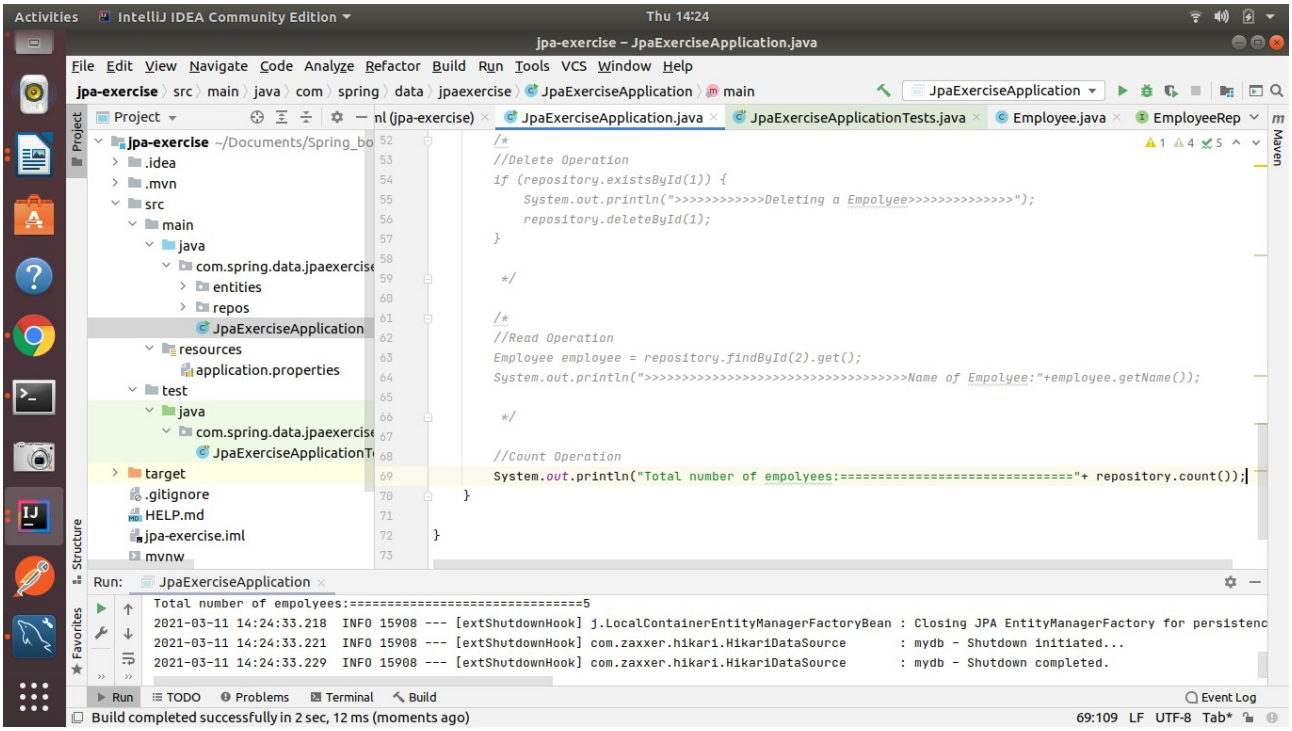
Result Grid | Filter Rows: | Edit:

#	id	name	age	location
1	2	Naveen Garg	29	Nodia
2	3	Ankit	28	MP
*	NULL	NULL	NULL	NULL

(5) Perform Read Operation on Entity using Spring Data JPA



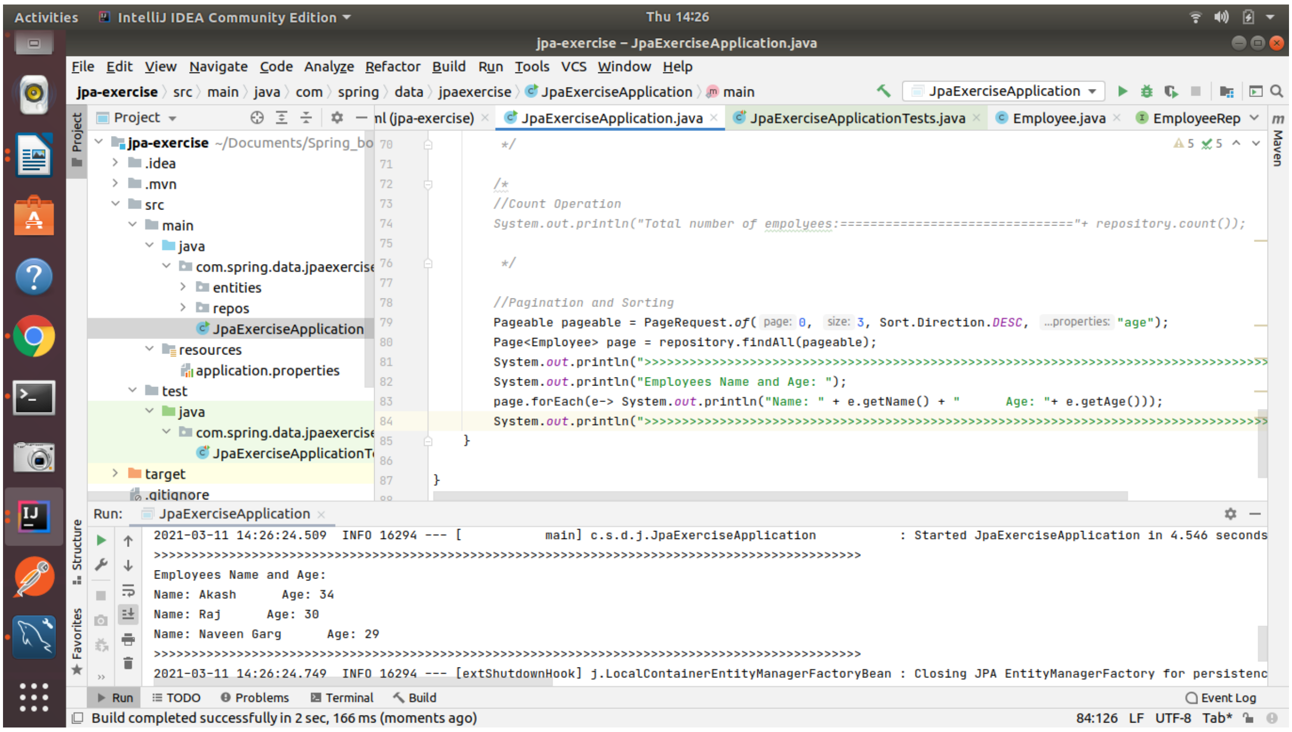
(6) Get the total count of the number of Employees



Result Grid Filter Rows: Edit:

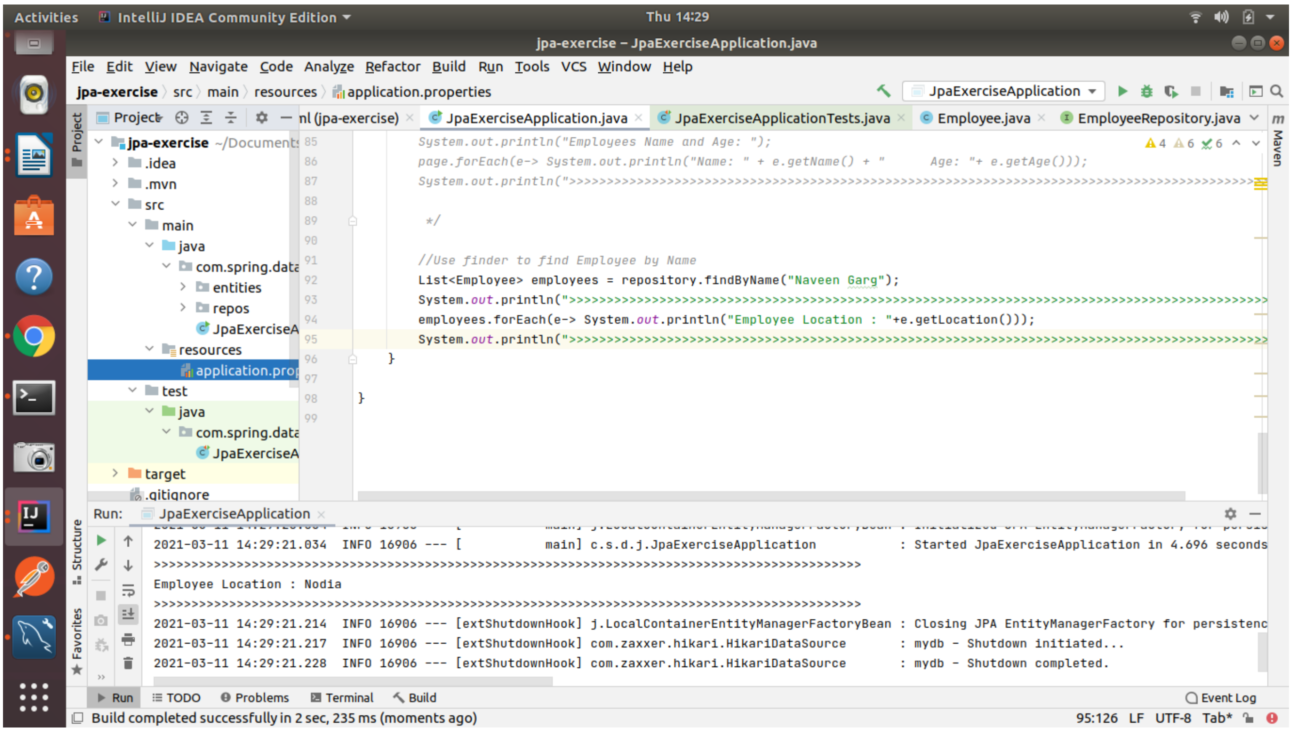
#	id	name	age	location
1	2	Naveen Garg	29	Nodia
2	3	Ankit	28	MP
3	4	Rahul	25	Mumbai
4	5	Raj	30	UP
5	6	Akash	34	Delhi
*	NULL	NULL	NULL	NULL

(7) Implement Pagination and Sorting on the bases of Employee Age



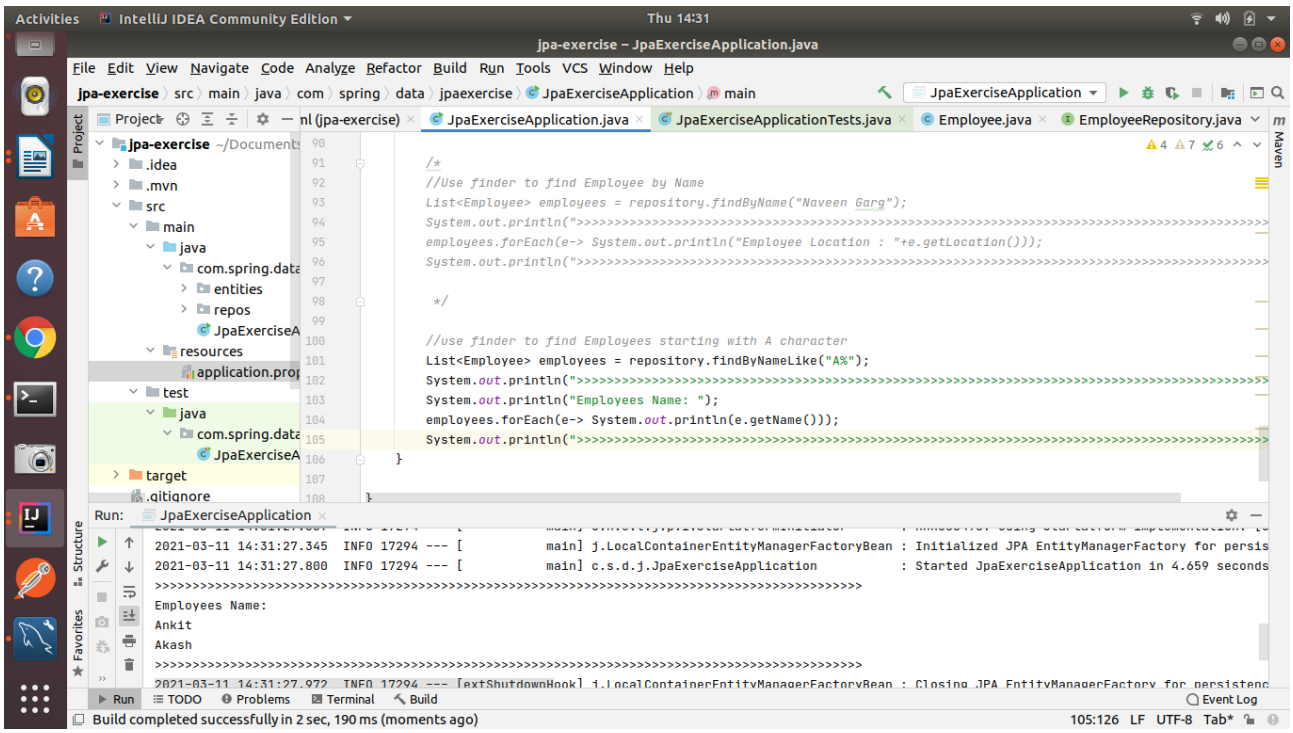
(8) Create and use finder to find Employee by Name

```java
package com.spring.data.jpaexercise.repos;

import com.spring.data.jpaexercise.entities.Employee;
import org.springframework.data.repository.CrudRepository;

import java.util.List;

public interface EmployeeRepository extends CrudRepository<Employee, Integer> {
    List<Employee>findByName(String name);
}
```



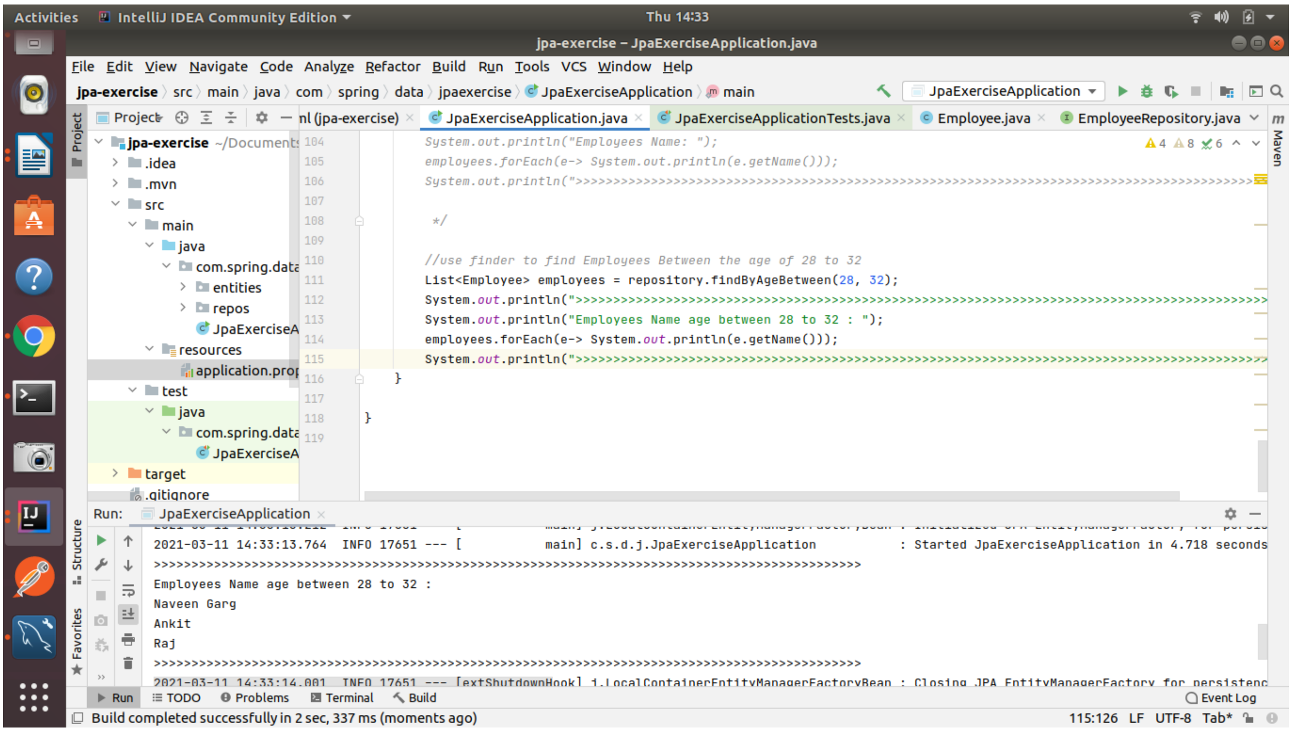
(9) Create and use finder to find Employees starting with A character

```
package com.spring.data.jpaexercise.repos;

import com.spring.data.jpaexercise.entities.Employee;
import org.springframework.data.repository.CrudRepository;

import java.util.List;

public interface EmployeeRepository extends CrudRepository<Employee, Integer> {
      List<Employee>findByName(String name);

      List<Employee>findByAgeBetween(int age1, int age2);

      List<Employee>findByNameLike(String name);
}
```



(10) Create and use finder to find Employees Between the age of 28 to 32

```
package com.spring.data.jpaexercise.repos;

import com.spring.data.jpaexercise.entities.Employee;
import org.springframework.data.repository.CrudRepository;

import java.util.List;

public interface EmployeeRepository extends CrudRepository<Employee, Integer> {
      List<Employee>findByName(String name);

      List<Employee>findByAgeBetween(int age1, int age2);
}
```


Activities
IntelliJ IDEA Community Edition
Thu 14:33
jpa-exercise – JpaExerciseApplication.java
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
jpa-exercise src main java com spring data jpaexercise JpaExerciseApplication main
JpaExerciseApplication
Project
jpa-exercise ~/Documents
.idea
.mvn
src
main
java
com.spring.data
entities
repos
JpaExerciseA
resources
application.prop
test
java
com.spring.data
JpaExerciseA
target
.gitignore
JpaExerciseApplication.java
JpaExerciseApplicationTests.java
Employee.java
EmployeeRepository.java
System.out.println("Employees Name: ");
employees.forEach(e-> System.out.println(e.getName()));
System.out.println(">>>
*/
//use finder to find Employees Between the age of 28 to 32
List<Employee> employees = repository.findByAgeBetween(28, 32);
System.out.println(">>>
System.out.println("Employees Name age between 28 to 32 : ");
employees.forEach(e-> System.out.println(e.getName()));
System.out.println(">>>
}
}
Run: JpaExerciseApplication
2021-03-11 14:33:13.764 INFO 17651 --- [main] c.s.d.j.JpaExerciseApplication : Started JpaExerciseApplication in 4.718 seconds
>>>
Employees Name age between 28 to 32 :
Naveen Garg
Ankit
Raj
>>>
2021-03-11 14:33:14.001 INFO 17651 --- [extShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistenc
Run TODO Problems Terminal Build Event Log
Build completed successfully in 2 sec, 337 ms (moments ago)
115:126 LF UTF-8 Tab*