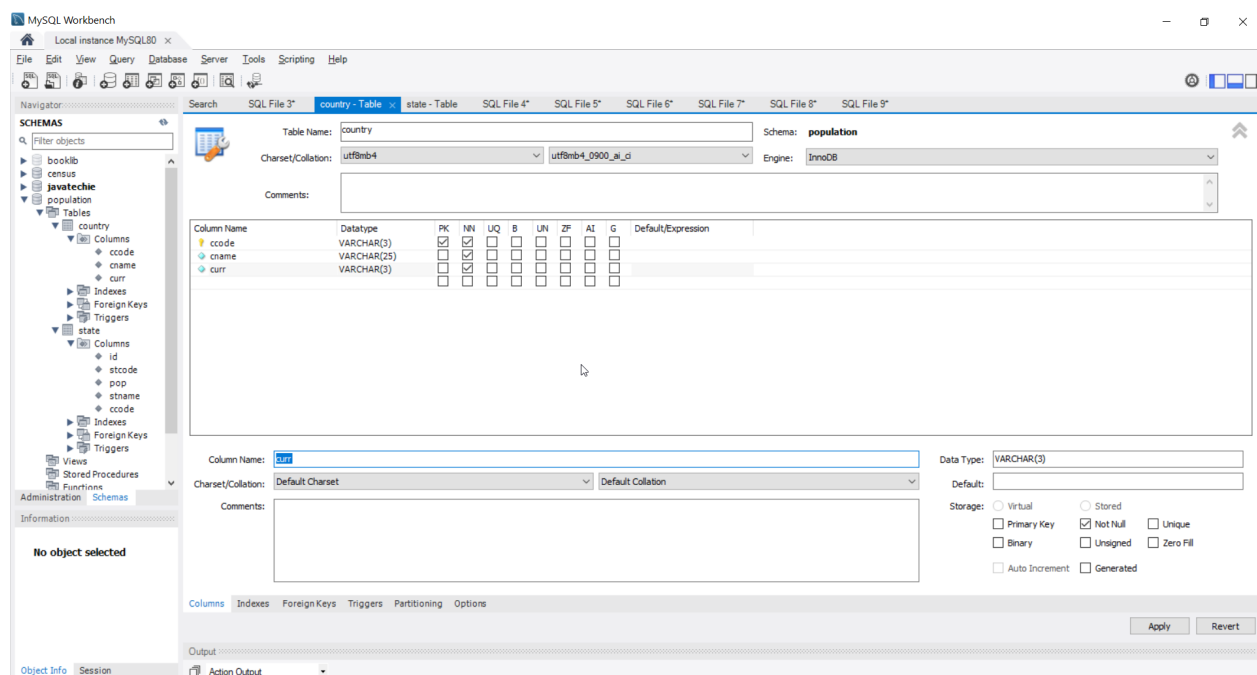
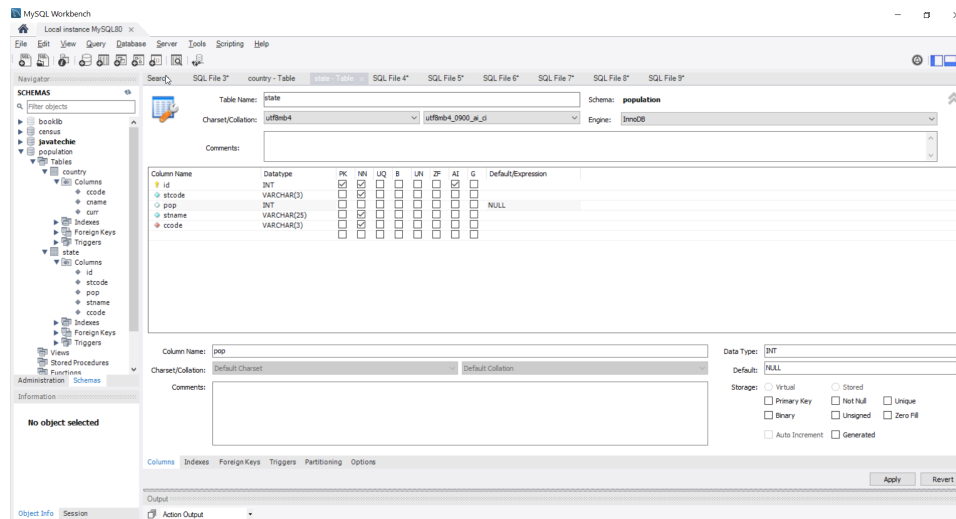


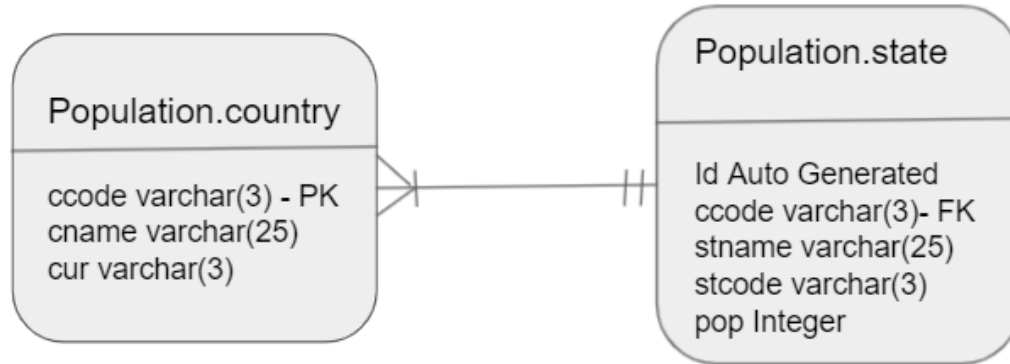
Database -

Create a database of your desired flavor that can store simple data based on the following fictional country and state information:

Mysql is used for Database schema -



A below schema is created -



One-to-many relationship

Data.sql and schema.sql are

```
spring.jpa.hibernate.ddl-auto=none
```

This property need to be set in application.properties file to allow spring to create the scheme and not create the spring jpa by itself.

```
schema.sql - Notepad
File Edit Format View Help
CREATE TABLE population.country (
  ccode varchar(3) NOT NULL ,
  cname VARCHAR(25) NOT NULL,
  PRIMARY KEY (ccode)
);

CREATE TABLE population.state (
  id INTEGER NOT NULL AUTO_INCREMENT,
  stcode varchar(3) NOT NULL,
  pop INTEGER,
  stname VARCHAR(25) NOT NULL,
  ccode varchar(3) NOT NULL,
  FOREIGN KEY (CCODE)
);
```

```
data.sql - Notepad
File Edit Format View Help
INSERT INTO country (ccode,cname,curr) VALUES ('BLD','Big Land','CHK');
INSERT INTO country (ccode,cname,curr) VALUES ('MDR','Mordor','GUL');
INSERT INTO country (ccode,cname,curr) VALUES ('NUM','Numberland','DIG');
```

Similarly the state table is also loaded

The @sql can be used to load the data instead of manually creating -

```
@Sql({"/population_schema.sql", "/import_data.sql"})
public class SpringBootInitialLoadIntegrationTest {

    @Autowired
    private CountryRepository countryRepository;

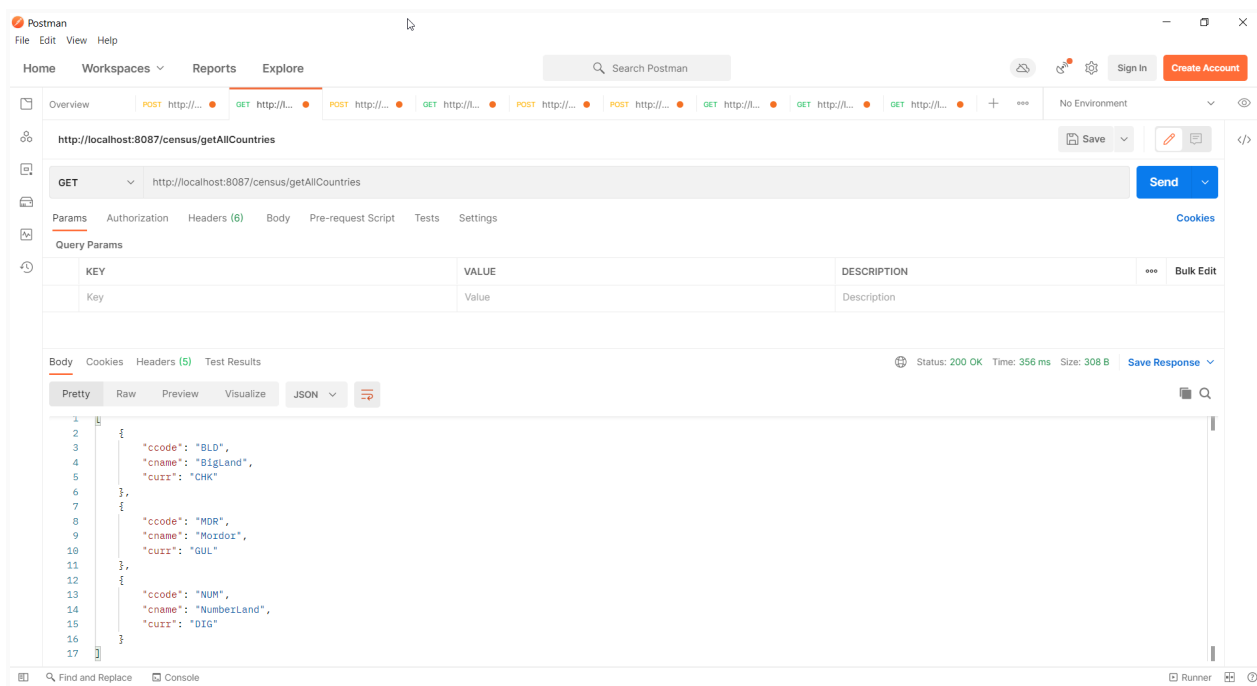
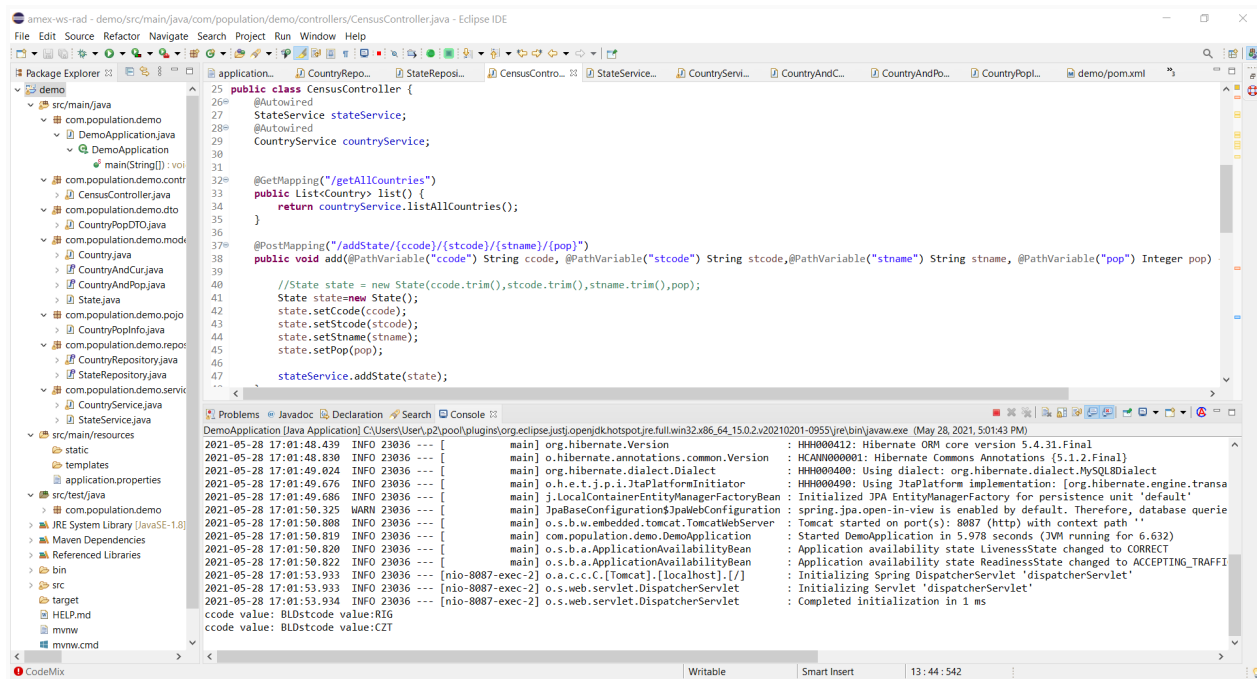
    @Test
    public void testLoadDataForTestClass() {
        assertEquals(3, countryRepository.findAll().size());
    }
}
```

Likewise, the data is loaded

```
@Test
@Sql({"/import_data.sql"})
public void testLoadDataForTestCase() {
    assertEquals(3, stateRepository.findAll().size());
}
```

The application.properties file in Resources folder has the Mysql connectivity and server port configured.

```
spring.datasource.url=jdbc:mysql://localhost:3306/population
spring.datasource.username=root
spring.datasource.password=password
server.port = 8087
spring.jpa.hibernate.ddl-auto=none
```



rest end points to be used (in postman) -

For adding a state -

<http://localhost:8087/countries/>

In postman, in the Post, select body and json type and give the input -

```
{
  "ccode":"BLD",
  "stcode":"CTR",
  "stname":"CenterProvince",
  "pop":13987
}
```

For getting list of countries -

`http://localhost:8087/countries/`

adding state with post with given data as parmvalue-

`http://localhost:8087/census/addState/MDR/STN/state/6964564`

For retriving total population start a getrequest from postman -

`http://localhost:8087/census/getAllCountryPop/NUM`

where NUM is the country code

```
SELECT country.ccode, sum(state.pop)
      FROM population.country, population.state
      WHERE state.ccode = country.ccode and country.ccode =
```

For retrieving the validateState get request -

`http://localhost:8087/census/validateState/BLD/RIG`

where BLD is ccode and RIG is stcode

`'BLD' ;`

Query for validateState -

```
select count(*) from population.state where ccode =?1 and stcode =?2
```

Git Repository -

<https://github.com/radhikakadiri/amex-demo-radhika.git>

`Census-demo.jar` is the jar file that is also uploaded to git repository.

