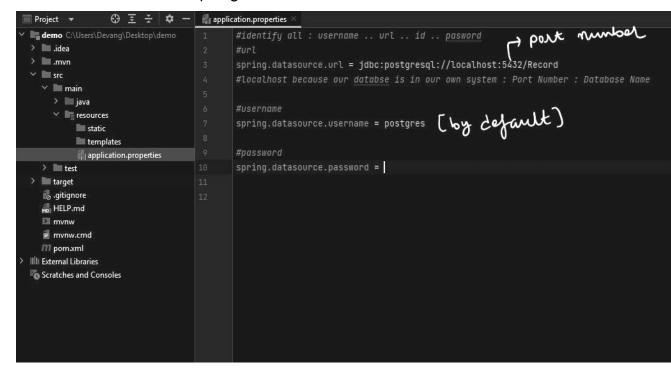
- 1. Installed PostgreSQL
 - You don't need any kind of GUI
 - Very fast as compared to other dbs
 - Free , Open Source
 - World's most advanced open source relational dbs
 - Port: 5432
 - pgAdmin4 is the web based GUI client
 - Tables are under the pg server >> schemas
- 2. IDE used: IntelliJ
- 3. <u>start.spring.io</u>: Filled in the details and other things to initialize my spring boot project.

Project : MavenLanguage : Java

Dependencies : Postgres Driver , JDBC Driver

- 4. In the project
 - src >> main >> resources >> application.properties
 - In this file filled in the postgre credentials



src >> main >> java

- Created a class person.java
- In this initially importing all modules ... by initializer and by editor
- Autowiring the object of JdbcTemplate in our class person
- Creating the table and inserting the data

```
@Repository
public class Person {
   @Autowired
   //Autowiring : Feature of spring framework in
   //which spring container inject the dependancies automatically
   //Works with objects only private Jabotemplate; [autowining onge a of g doctomplate]
   //Creating the table
   public void createTable(){
        van query = "CREATE TABLE person(id SERIAL PRIMARY KEY , " +
       int update = this.jdbcTemplate.update(query);
                                                at with return the
       System.out.println(update);
   //Inserting the data
   public void insertData(String fname, String lname, String id){
      string q = "INSERT INTO person(first_name,last_name,email_id) values(?,?,?)";
       int update = this.jdbcTemplate.update(q,fname,lname,id);
       System.out.println(update + "rows added");
```

Inserting With Input from user

```
//Inserting the data with input
lusage
public void insertDataWitthInput(){
    Scanner s = new Scanner(System.in);
    System.out.println("Enter First Name");
    String f_name = s.nextLine();
    System.out.println("Enter Last Name");
    String l_name = s.nextLine();
    System.out.println("Enter Emai Id");
    String e_id = s.nextLine();
    String q = "INSERT INTO person(first_name,last_name,email_id) values(?,?,?)";
    int update = this.jdbcTemplate.update(q,f_name,l_name,e_id);
    System.out.println(update + "rows added");
}
```

- To execute a query, you use one of the following methods of the Statement object:
 - execute: returns true if the first object of the query is a ResultSet object. You can get the ResultSet by calling the method getResultSet.
 - · executeQuery: returns only one ResultSet object.
 - executeUpdate: returns the number of rows affected by the statement. You use this method for the INSERT, DELETE, or UPDATE statement.
- After this inside main >> java >> com.postgre >> Creation >> DemoApplication.java.
- 6. Learnt to use CLI (Command Line Inerface)

```
package com.postgraes.demo;
import ...
                                               learnt CUE
1 usage
@SpringBootApplication
public class DemoApplication implements CommandLineRunner{
                          autowining The object of person in our
   @Autowired
   private Person person;
   public static void main(String[] args) { SpringApplication.run(DemoApplication.class, args); }
   @Override
   public void run(String... args) throws Exception {
          this.person.insertDataWitthInput();
                                                      The newtods & person
//Command Line Runner : Interface
//It helps to run and test the Spring Boot Applications using command pronmpt
```

7. Outputs and results:

```
损 .gitignore
       # HELP.md
                                                  public static void main(String[] args) { SpringApplication.run(DemoApplication.class, args); }
                                      14

    m∨nw

       mvnw.cmd
      m pom.xml
                                                  @Override
  > IIII External Libraries
                                      20 🐠
                                                  public void run(String... args) throws Exception {
    Scratches and Consoles
                                                           this.person.insertData( fname: "HP", Iname: "Laptop", id: "hp@gmail.com");
                                      24
                                              //Command Line Runner : Interface
                                             △//It helps to run and test the Spring Boot Applications using command pronmpt
       DemoApplication
  Run:
          ZUZJ-U1-1/111.Z4.44.3U4+U3.3U INFU UJ7Z --- L
                                                                     main; com.posigraes.uemo.bemoxppiicacion
                                                                                                                      . NO OCCIVE PROTICE SEC, TACCING
  C
          2023-01-17T11:24:46.293+05:30 INFO 6392 --- [
                                                                     main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s
          2023-01-17T11:24:46.308+05:30 INFO 6392 --- [
                                                                     main] o.apache.catalina.core.StandardService
                                                                                                                      : Starting service [Tomcat]
          2023-01-17T11:24:46.308+05:30 INFO 6392 --- [
                                                                     main] o.apache.catalina.core.StandardEngine
                                                                                                                      : Starting Servlet engine: [Apac
          2023-01-17T11:24:46.480+05:30 INFO 6392 --- [
                                                                     main] o.a.c.c.C.[Tomcat].[localhost].[/]
                                                                                                                      : Initializing Spring embedded W
  ô
          2023-01-17T11:24:46.480+05:30 INFO 6392 --- [
                                                                     main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: in
  药
          2023-01-17T11:24:47.178+05:30 INFO 6392 --- [
                                                                     main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 808
  →
          2023-01-17T11:24:47.194+05:30 INFO 6392 --- [
                                                                                                                      : Started DemoApplication in 3.4
                                                                     main] com.postgraes.demo.DemoApplication
          2023-01-17T11:24:47.194+05:30 INFO 6392 --- [
                                                                     main] com.zaxxer.hikari.HikariDataSource
                                                                                                                      : HikariPool-1 - Starting...
  ш
          2023-01-17T11:24:47.475+05:30 INFO 6392 --- [
                                                                     main] com.zaxxer.hikari.pool.HikariPool
                                                                                                                      : HikariPool-1 - Added connectio
  ×
          2023-01-17T11:24:47.475+05:30 INFO 6392 --- [
                                                                     main] com.zaxxer.hikari.HikariDataSource
                                                                                                                      : HikariPool-1 - Start completed
          1rows added
     target
                                              private Person person;
    agitignore ...
    # HELP.md
                                   14
                                              public static void main(String[] args) { SpringApplication.run(DemoApplication.class, args); }

    mvnw

    mvnw.cmd
    m pom.xml
                                              @Override
IIII External Libraries
                                   20 0
                                              public void run(String... args) throws Exception {
  Scratches and Consoles
                                                      this.person.insertDataWitthInput();
                                          }
                                          //Command Line Runner : Interface
                                          //It helps to run and test the Spring Boot Applications using command pronmpt
     DemoApplication
Run:
                                                                mainj o.s.p.w.empeudeu.comcat.romcatwepserver . romcat started on port(s). odoo (nttp)
        ZUZJ-U1-1/111.ZJ.ZJ.U44+UJ.JU INFU /4U0 --- I
♂
       2023-01-17T11:25:23.660+05:30 INFO 7408 --- [
                                                                                                             : Started DemoApplication in 3.339 second
                                                                main] com.postgraes.demo.DemoApplication
   1
       Enter First Name
       Apple
   5
Enter Last Name
  ΞΨ
ô
       Laptop
   픙
药
       Enter Emai Id
<del>-)</del>
       apple@gmail.com
       2023-01-17T11:25:38.841+05:30 INFO 7408 --- [
                                                                main] com.zaxxer.hikari.HikariDataSource
                                                                                                               : HikariPool-1 - Starting...
       2023-01-17T11:25:39.112+05:30 INFO 7408 --- [
                                                                main] com.zaxxer.hikari.pool.HikariPool
                                                                                                               : HikariPool-1 - Added connection org.pos
       2023-01-17T11:25:39.112+05:30 INFO 7408 --- [
                                                                main] com.zaxxer.hikari.HikariDataSource
                                                                                                               : HikariPool-1 - Start completed.
       1rows added
```

