```
postgres=# \q marksneet;

Table "public.marksheet"

Column | Type | Collation | Nullable | Default

admno | integer | | | | |
name | character varying(30) | | | |
mark1 | numeric | | | | |
marks2 | numeric | | | |
total | numeric | | | |
average | numeric | | | |
result | character varying(10) | | |
```

Defining the 'Marksheet' Class for Data Representation:

```
☐ ② application.properties ③ Database2Application.java

                                    package com.database2.database2.Assignment;
30
       import jakarta.persistence.Entity;
      import jakarta.persistence.Id;
   4 @Entity 4 usages
   5 public class Marksheet {
       @Id 2 usages
    7
         int admno;
    8
         String name, result; 2 usages
20

21

3

22

3

22

3

3
          this.name = name:
         public String getResult() { no usages
          return result;
   24
p 24 s sublic void setResult(String result) { 1usage
```

```
= u databasez v version control v warksneet.java [U:\Users\veersingn Lodni\... v Current File v
Oatabase2Application.java
    application.properties
                                                     public class Marksheet {
30
                  return result;
               }
     24
              public void setResult(String result) { 1usage
                this.result = result;
     27
              public double getMark1() { no usages
     28
     29
                 return mark1;
             public void setMark1(double mark1) { 1 usage
     32
                 this.mark1 = mark1;
             public double getMark2() { no usages
     34
                  return mark2;
     36
             public void setMark2(double mark2) { 1usage
     38
                 this.mark2 = mark2;
\triangleright
     39
              }-
>
              public double getTotal() { no usages
    40
     41
                 return total;
>_
               public void setTotal(double total) { 1usage
    43
1
    44
                 this.total = total;
25
               eansainn } ()ensayAten efdunb oifdun
```

```
D database2 Version control V © Marksheet.java [C:\Users\Veersingh Lodhi\... V Current F
5
           public class Marksheet {
30
                 return mark2;
     36
              public void setMark2(double mark2) { 1 usage
     37
     38
              this.mark2 = mark2;
     39
              public double getTotal() { no usages
     40
     41
                 return total;
     42
              public void setTotal(double total) { 1usage
     43
     44
                 this.total = total;
     45
              }
              public double getAverage() { no usages
     46
     47
                return average;
     48
              public void setAverage(double average) { 1usage
     49
                 this.average = average;
D
     51
              public Marksheet() { 1usage
     52
>_
     54
           }
     55
1
र्थ
```

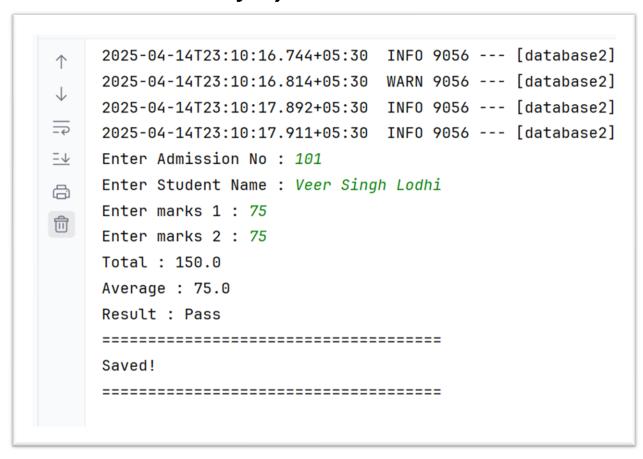
Creating the 'markSheetRepository' Interface for Database Operations :

Main Method in Spring Boot Application: Entry Point

```
@ application.properties
                          1 markSheetRepository.java
           import org.springframework.context.ConfigurableApplicationContext;
30
     8
     9
          @SpringBootApplication
    10 ▷ public class Database2Application {
    12 D
              public static void main(String[] args) {
              {\tt Configurable Application Context=Spring Application.} run ({\tt Database 2 Application. class, args});
              \verb|markSheetRepository| = \verb|context.getBean(markSheetRepository.class)|; \\
              java.util.Scanner scanner=new java.util.Scanner(System.in);
              System.out.print("Enter Admission No : ");
            int admno=scanner.nextInt();
    19
            System.out.print("Enter Student Name : ");
    20
            scanner.nextLine();
             String name=scanner.nextLine();
            System.out.print("Enter marks 1 : ");
    23
             double m1= scanner.nextDouble();
             System.out.print("Enter marks 2 : ");
           double m2= scanner.nextDouble();
double total=m1+m2;
    25
    26
>_
            double avg=total/2;
    28
            String result;
    29
            if(avg>=33)
    30
                 result="Pass";
29
```

```
@ application.properties
                          ① markSheetRepository.java
          public class Database2Application {
         public static void main(String[] args) {
              double avg=total/2;
    28
              String result;
             if(avg>=33)
    29
    30
                 result="Pass";
          else
    result="Fail";
System.out.println("Total : "+total);
System.out.println("Average : "+avg);
System.out.println("Result : "+result');
    34
    35
              System.out.println("Result : "+result);
            Marksheet marksheet=new Marksheet();
    36
           marksheet.setAdmno(admno);
          marksheet.setName(name);
marksheet.setMark1(m1);
    38
    39
           marksheet.setMark2(m2);
          marksheet.setTotal(total);
marksheet.setAverage(avg);
    41
             marksheet.setAverage(avg);
            marksheet.setResult(result);
   43
          markSheetRepository.save(marksheet);
    44
>_
              System.out.println("======");
    46 System.out.println("Saved!");
1
    47
              System.out.println("=======");
    48
```

Student Data Successfully Stored in the Database:



```
\uparrow
   main] j
   2025-04-14T23:13:43.006+05:30 WARN 22872 --- [database2] [
                                                main] J
   main] o
2025-04-14T23:13:44.043+05:30 INFO 22872 --- [database2] [
                                                main] c
  Enter Admission No : 102
\equiv \downarrow
   Enter Student Name : XYZ
Enter marks 1 : 32
⑪
   Enter marks 2 : 33
   Total : 65.0
   Average : 32.5
   Result : Fail
   _____
   Saved!
   _____
```