

ADDING A NEW PRODUCT IN DATABASE

Students.java:-

```
package com.friends.anilkumar;

import javax.persistence.Column;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name = "students")
public class students {

    public String getname() {
        return getname();
    }

    public void setname(String name ) {
        this.name = name;
    }

    public int gets_id() {
        return s_id;
    }

    public void sets_id(int s_id) {
        this.s_id = s_id;
    }

    public String gets_course() {
        return s_course;
    }

    public void sets_course(String s_course) {
        this.s_course = s_course;
    }
}
```

```

    public int getc_id() {
        return c_id;
    }

    public void setc_id(int c_id) {
        this.c_id = c_id;
    }

    @Id
    @Column(name="c_id")
    int c_id;
    @Column(name = "s_course")
    String s_course;
    @Column(name = "s_id")
    int s_id;
    @Column(name="name")
    // @GeneratedValue(strategy = GenerationType.IDENTITY)
    String name;

    public students() {
        // TODO Auto-generated constructor stub
    }

    @Override
    public String toString() {
        return "Learner [learnerId=" + name + ", learnerName=" + s_id +
            ", learnerDomain=" + s_course+",courseid="+c_id
            + "]";
    }

    public students(String name,int s_id, String s_course,int c_id) {

        this.name = name;
        this.s_id=s_id;
        this.s_course=s_course;
    }

```

```

        this.c_id=c_id;
//        this.learnerDomain = learnerDomain;
    }

}

```

App.java:-

```

package com.friends.anilkumar;

import java.util.List;

import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;

public class App
{
    public static void main( String[] args )
    {
//        Get the SessionFactory
        SessionFactory factory = new Configuration()

        .configure("hibernate.cfg.xml")

        .addAnnotatedClass(students.class)

        .buildSessionFactory();

//        Get the Session
        Session theSession = factory.getCurrentSession();

        try {
//            Add a new learner
            students theLearner = new students("m.anil",109,"devops",1105);

//            Start the transaction

```

```
        theSession.beginTransaction();

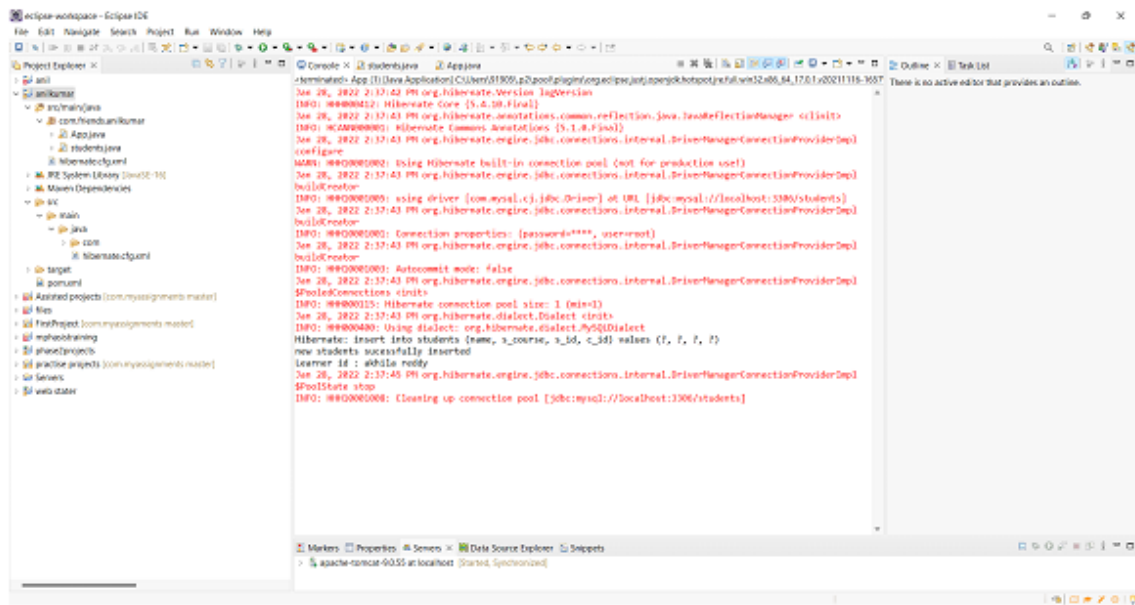
//        Save the learner
        theSession.save(theLearner);

//        Commit the transaction
        theSession.getTransaction().commit();
        System.out.println("new students sucessfully inserted ");
        System.out.println("Learner id : " + theLearner.name);

//        Learner learner = theSession.get(Learner.class, 2);
//
//        System.out.println("Learner details by id : " + learner);

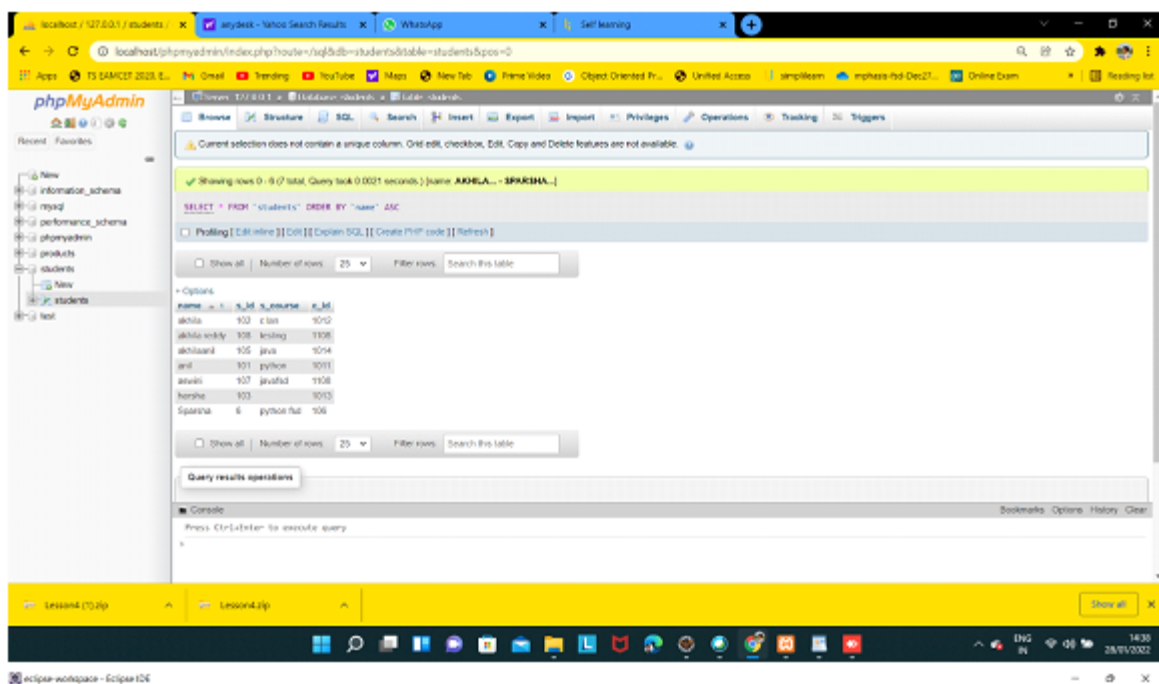
    }finally {
        factory.close();
    }
}
```

Output:-



The screenshot shows the Eclipse IDE interface with the console window open. The console displays the following logs:

```
2022-11-15 10:17:42 PM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate Core (5.4.10.Final)
2022-11-15 10:17:43 PM org.hibernate.annotations.common.reflection.java.InnoReflectionManager <init>
INFO: HHH000080: Hibernate Commons Annotations (5.1.0.Final)
2022-11-15 10:17:43 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionFactory
configure
INFO: HHH000080: Using Hibernate built-in connection pool (not for production use!)
2022-11-15 10:17:43 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionFactory
buildCreator
INFO: HHH000080: using driver [com.mysql.cj.jdbc.Driver] at URL [jdbc:mysql://localhost:3306/students]
2022-11-15 10:17:43 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionFactory
buildCreator
INFO: HHH000080: Connection properties: {password=****, username=}
2022-11-15 10:17:43 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionFactory
buildCreator
INFO: HHH000080: Autocommit mode: false
2022-11-15 10:17:43 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionFactory
$poolConnections <init>
INFO: HHH000115: Hibernate connection pool size: 1 (min=1)
2022-11-15 10:17:43 PM org.hibernate.dialect.Dialect <init>
INFO: HHH000480: Using dialect: org.hibernate.dialect.MySQLDialect
Hibernate: insert into students (name, s_course, s_id, c_id) values (?, ?, ?, ?)
Hibernate: insert into students (name, s_course, s_id, c_id) values (?, ?, ?, ?)
2022-11-15 10:17:45 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionFactory
$poolState stop
INFO: HHH000080: Cleaning up connection pool [jdbc:mysql://localhost:3306/students]
```



The screenshot shows the phpMyAdmin interface with the 'students' table selected. The table structure is as follows:

name	s_id	s_course	c_id
adithi	102	c_tan	1012
adithi venky	108	knobling	1108
adithi arad	105	java	1014
anjali	101	python	1011
anvitha	107	python	1108
benzhi	103		1010
Spandan	6	python	108

The console window at the bottom shows the following query results:

```
SELECT * FROM `students` ORDER BY `name` ASC
Showing rows 0 - 6 (7 total, Query took 0.0021 seconds) [name: ADITHI, - SPANDAN]
```

