

# Deleting an Entity

To delete a record from database, EntityManager interface provides remove() method. The remove() method uses primary key to delete the particular record.

## JPA Entity Delete Example

Here, we will remove the particular record of the student.

This example contains the following steps: -

- Create an entity class named as StudentEntity.java under com.javatpoint.jpa.student package that contains attributes s\_id, s\_name and s\_age.

### StudentEntity.java

```
package com.javatpoint.jpa.student;
import javax.persistence.*;

@Entity
@Table(name="student")
public class StudentEntity {

    @Id
    private int s_id;
    private String s_name;
    private int s_age;

    public StudentEntity(int s_id, String s_name, int s_age) {
        super();
        this.s_id = s_id;
        this.s_name = s_name;
        this.s_age = s_age;
    }

    public StudentEntity() {
        super();
    }
}
```

```
public int getS_id() {  
    return s_id;  
}  
  
public void setS_id(int s_id) {  
    this.s_id = s_id;  
}  
  
public String getS_name() {  
    return s_name;  
}  
  
public void setS_name(String s_name) {  
    this.s_name = s_name;  
}  
  
public int getS_age() {  
    return s_age;  
}  
  
public void setS_age(int s_age) {  
    this.s_age = s_age;  
}  
  
}
```

- o Now, map the entity class and other databases configuration in Persistence.xml file.

## Persistence.xml

```
<persistence>  
<persistence-unit name="Student_details">  
  
    <class>com.javatpoint.jpa.student.StudentEntity</class>  
  
<properties>  
<property name="javax.persistence.jdbc.driver" value="com.mysql.jdbc.Driver"/>
```

```
<property name="javax.persistence.jdbc.url" value="jdbc:mysql://localhost:3306/studentdata"/>
<property name="javax.persistence.jdbc.user" value="root"/>
<property name="javax.persistence.jdbc.password" value=""/>
<property name="eclipselink.logging.level" value="SEVERE"/>
<property name="eclipselink.ddl-generation" value="create-or-extend-tables"/>
</properties>

</persistence-unit>
</persistence>
```

## Deletion.java

```
package com.javatpoint.jpa.delete;
import javax.persistence.*;
import com.javatpoint.jpa.student.*;

public class DeleteStudent {

    public static void main(String args[])
    {
        EntityManagerFactory emf=Persistence.createEntityManagerFactory("Student_details");
        EntityManager em=emf.createEntityManager();
        em.getTransaction().begin();

        StudentEntity s=em.find(StudentEntity.class,102);
        em.remove(s);
        em.getTransaction().commit();
        emf.close();
        em.close();

    }
}
```

## Output:

After the execution of the program, the student table is generated under MySQL workbench. This table contains the student details. To fetch data, run select \* from student query in MySQL.

### Before Deletion

S_ID	S_NAME	S_AGE
101	Gaurav	24
102	Ronit	30
103	Rahul	26

### After Deletion

S_ID	S_NAME	S_AGE
101	Gaurav	24
103	Rahul	26