# Approach-1

=======

session.delete(Object obj)

directly we are trying to delete the object, so not a good approach

## Approach-2

========

First load the object, if found only then delete the object. refer: HBDeleteOperation

How can u show that synchronization would exists b/w EntityObject to DBTable row? refer: HBSynchronizationOperation

#### Generators in hibernate

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MySQL => primary key value where the generation of these values are made automatic.

While creating a table, we can inform hibernate to create a columns with primary key value using @Id.

It is also possible to set the values to these primary key columns using Generators in hibernate.

There are 3 types of generators in hibernate

- a. Hibernate supplied generators
- b. JPA generators
- c. Custom generators

### Hibernate supplied generators

- a. assigned
- b. increment
- c. identity
- d. sequence
- e. hilo
- f. seqhilo
- g. native
- h. foreign
- i. select
- j. uuid
- h. guid

#### assigned

======

If we use this algorithm then explicitly we need to specify the primary key value to the table.

assigned => org.hibernate.id.Assigned

```
It works with all databases as we need to give the primary key value.
@Id
@Column(name = "eid")
@GenericGenerator(name="gen1", strategy = "assigned")
@GeneratedValue(generator = "gen1")
 private Integer empId;
increment
_____
      It uses max(value) + 1 to generate the primary key value which is of int type
      Works with all Database.
      If dbTable is empty it will generate 1 as the identity value.
      increment => org.hibernate.id.IncrementGenerator
@Id
@Column(name = "eid")
@GenericGenerator(name="gen1", strategy = "increment")
@GeneratedValue(generator = "gen1")
 private Integer empId;
identity
=====
      Generates the value which are of type int, long, short.
      This generator can be used only in such databases that supports "identity"
      This generator works for MySQL, DB2, SQlServer, ...
      it wont work in Oracle, PostgreSQL....
      MySQL=> AutoIncrement feature
@Id
@GenericGenerator(name = "gen1", strategy = "identity")
@GeneratedValue(generator = "gen1")
private Integer empId;
JPA generators
=========
  These are given by Sun MS JPA specification
  It will work with all ORM Frameworks
  4 generators are given
      a. Identity
      b. sequence
      c. table
      d. auto
identity
=====
 It works with MySQL database.
 It is similar to AutoIncrement feature of primary key column.
@Id
@Column(name = "eid")
@GeneratedValue(strategy = GenerationType.IDENTITY)
private Integer empId;
auto
 It works with all database
```

```
Depending upon the db engine platform, automatically hibernate will use
hiberanate_sequence algorithm to generate the
 primary key value.
@Id
@Column(name = "eid")
@GeneratedValue(strategy = GenerationType.AUTO)
private Integer empId;
pid(pk)
pname
deptno
projId(pk)
projName
@Embeddable
class ProjectInfo
{
      private Integer pid;
      private Integer projId;
}
@Entity
class ProgrammerProjectinfo
{
       @EmbededId
      ProjectInfo info;//HAS-A relationship
      private String pname;
      private Intger deptNo;
      private String projName;
}
                  refer: HBCompositeIDApp
Inserting Date and Time App using hibernate
   If we are using java.util.* or java.calendar.* then we need to use @Temporal
annoatation
   If we are using java.time.* then no need to use @Temporal Annoatation.
eg:
private LocalDate dob;
private LocalDateTime dom;
private LocalTime doj;
person.setDob(LocalDate.of(1973, 4, 24));
person.setDom(LocalDateTime.of(1987, 6, 21, 12, 35));
person.setDoj(LocalTime.of(10, 45));
                        refer: HBDateTimeApp
```