

Phase 2

Day 4

13 Dec 2023

HibernateExamples

Maven project

We need add dependencies

Trainer

	Tid	PK
	Tname	

Student

Course

Etc

If we want to use retrieve query hibernate provide there own query language
ie

HQL (Hibernate Query Language)

`select t from Trainer t`

here Trainer is entity class name and case sensitive. t is object. using t we are retrieve all property of Trainer entity class. in HQL we can't use *.

`from Trainer t;`

`from Trainer`

Trainer is entity class.

`select t.tname from Trainer t;`

Trainer is entity class t object and tname is variable name of Trainer entity class.

`select t.tid, t.tname from Trainer t;`

SQL (Structured Query Language)

`Select * from tableName;`

`select * from trainer;`

trainer is table name not a case sensitive. * mean all column from table.

`Select tname from Trainer`

retrieve only one column name.

`Select tid from Trainer`

`Select tid,tname from Trainer`

retrieve more than one column but not all columns.

Trainer to Student : one to many relationship

Trainer table ->

Tid(PK)	TName	(non key attribute)
101	VijayKumar	
102	Rajesh	

Student table ->

SID(PK)	SName	age	TSID(FK) :
1	Seeta	21	101
2	Reeta	22	101
3	Meeta	23	102
4	Leeta	24	null

Primary key : in single table we can create only one column as pk. If column is pk that column doesn't allow duplicate as well as null value.

Foreign key is use to connect pk for same or another table. FK allow only those value which present in PK. It can allow null. Value.

```
create table trainer(tid int primary key,tname varchar(30));
```

```
create table student(sid int primary key,sname varchar(30), age int, tsid int,  
foreign key(tsid) references trainer(tid));
```

One Trainer can handle more than one students.

One to many relationship.

In database using PK and FK.