DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT CODE: 19CS2107 ENTERPRISE PROGRAMMING WORKBOOK

HQL, HCQL #9			
Date of the Session	n://	Time of the Se	ession:to
Prerequisite:			
	ic idea on Hibernate Query Langua ic idea on hibernate Criteria Query		e
Pre-Lab Task:			
1. Write the HQ	L query to find the count of red co	olored bottles and of	f quantity 1 litre.
Select Co	unt (*) from Bottle c	us B where 1	3. Colour = hed &
B quanti	与 = 1 "		
value of mi	QL query to get data of the first 1 crowave safe is "yes") in ascending hal = "Select brom" B. quantity ASC" Query = Session (Creat query. Set Fory Results (Coll query to get the 15th to 30th	te query, has	where B. mipute:
C Can V	= (sex Pagett (15); C.S	set Man Kesul	(20).)
1	ist tiet; (list ();		

4. Write the HCQL query to get the records who salary is greater than 150000.

C. add (Restrictions 9+ ("Salary", 150000)); Light Lisk = C. (ixt-C);

5. Write the HCQL query to get the records in ascending order on the basis of salary.

Critéria C= Session: Create Critéria/Emp. class C. add order [order. asc ("Salary")); List List = C. list ();

In Lab Task:

1. Stoins is the manager of Minimal Cube company. He maintains the records of employees working in his company. Create a java class where he gets and sets the values of EmpID, EmpName, EmpSalary, EmpAddress. Use Hibernate Frame-work to reduce manual work. When employees are terminated he is likely to delete the record of employee in his database and update the data when it is required. After performing all the operations he is likely to know the employees working in his company at the end of every month, so retrieve the data those who are working in his company. Create separate java class for retrieving, updating and deleting so that the Mr. Stoins can easily work when an employee data needs to update, delete or retrieve. Use Concept of HCQL (Hibernate Criteria Query Language).

Writing space for the Problem:(For Student's use only)

Package my Parkage; Public class Employee { Private int emp Id;
Private int String emp name;
Private string emp Address;

Public int get Emp 3d() {.

Public int get Emp 3d() {.

Public void Set Emp 2 d(int empTd) {. this empId = empId;

Public String get Emp Name () {.

returnent Name; 3.

Public void Set Emp Name (String Name) {

Public emp Name = emp Name

3.

Public String get EmpAddress().

Public void Set Emp Address (String emp Address) {.

```
this . empaddress= emp. Address; 3
  employee hom xml;
  L? xml Version ="10" encoding ="UTF-8"?>
  () DOCTYPE hilbernate mapping PUBLIC "Hilbernate Mapping DTD//EN"
"http:// www. hibernate. org/alter/hibernate. mapping-3.0. elto-
  Childrenate - mapping >
          (class rame = "my Package. enployee">.
          Lid name = "empId">.
         (generated class = increment") < | Grenerated >.
          Llid>
      (Property name = "emp Name"> < | Property>
      [ Property name: "emp Salary" > [ Property >.
       ZProperty name = "emp Address> 
        21 class>
       L'hiberrate-mapping>,
Employer · Cfg.xml =
  L? cont version ="1.0", encoding ="UTf-8"?)
 < 1 DOCTYPE hibernate - Configuration " SYSTEM >
"http: 11 www. helerrate. org 1 dtd /heberrate - Configuration - 3-6 /")
(hiberrate - Conbrg wreation).
   (Session -fectory)

«L Property name = "Connection · driver - class"> drack · idsc

 driver. Nach Driver (/Property).
  ( Property name > "Connection . user" > System < Property >
  (Property name = "Connection password"> manages < / Property>.
  [ Property name = "Show-SqL" > true < [Property).
```

Writing space for the Problem:(For Student's use only)

[Property name = "connection, wrs "> driver. idex: olarle; this (e) local host: 1521; XE C/Property> (Property name = "Connection · user " > System < / Property > (Property name = "Connection Password'> manager < // Property >. (Property name = "Shoro-Sel") true < 1 Property > (Property name = bbm 2dd (auto" > update // property) [Property name 2" dialet "> update (1 property). oracle oral cut [[Property >. (mapping resource = "employee hibm.xml"> (Imapping >). (/Session-factory) Childrete - Contiguration > Test - Java + Package my Package; import org-huberrate *; import org. hebernate. Cfg.+; Public class Test { Public Statu void mais (String () args) {. Contiguration Cfg = new Contiguration () Cfg. Contigure E" hébernate cfg xml"); Session factory SF = CFg. build Sessionfustery (); Session Session = Sp. open Session (), Transcelion Fransoelion = Sersion. b egis fransaction (); Employee employee = new Employee (); employee. Set Emp Name (" stringth "); employee . set Empsialogy ("10000");

employee. Set Empaddress ("Nellose");

```
Serrivo · Save (employee);
   transaction. Commit ( );
   Session dose ();
   System out Print in ('Inserted successfully');
Query July = Session. Create Query ("update Employee See empriano: 1
 where emp Id= I");
 query. Set Parameter ("n", "RAM");
 query. Set Parameter (":", 2);
  Cot States quely execute applate ()
 Gransation Commit ();
 System out Prent or ("updated successfully"),
query: Session Oreate Query ("delete brom Employee where ia-4");
 query execute update 0;
  transaction committes;
 System. out. Print in (" Deleted Successfully");
  aury: session Create Quely ("from Employee");
   List List =query list (>);
    iterator : to = list . iteratosc );
    while lite . has went {.
    Employee employee = (Employee) its next (5,
```

Post Lab Task:

1. Mr. Deekshit is running an Online Shopping website where shopping take place in his website regularly. So he decided to maintain two different tables namely ORDER containing attributes like ID, ORDERDATE, ORDRENUMBER, CUSTOMERID, TOTALAMOUNT where ID is primary key and another table describing CUSTOMER (ID, FIRSTNAME, LASTNAME, CITY, COUNTRY, PHONE) where ID will not have a null value. By using JOINS through Hibernate Frame-work help Mr.Deekshit to know the details of customer and items customer purchased. Display Order-number, Total-amount, First-name, Last-name, City, Country using ORDER.ID and CUSTOMER.ID.

Writing space for the Problem:(For Student's use only)

Import Java io *; impolt java. Serolet. #; javax. served . http. *; mpost java - Sali *; most Public Class Display extends HHP Servlet {. Public of void do Get (HHP Servlet Request Reg, 4HP Servlet Response throws To exception, Servlet Exception {. Paint writer out resiget writer (); gres . Set Context Type (" text / html"); try S. Class to Name C'oroeler i d'be driver " Oracle Driver "); Connection Con = Driver Manager, get Connection (icho: oracle: this: @ locallog 1521: x e", "System"; "goot"), SqL = " Select order Number, Total amount, Person Name, last Name, Dates City, Lourtry FROM (order Details) 3 OW CUSTOMER DETAILS, ON [order Details]. al Stomer Id = Customer Details I &" PrePard Statement Stmt = Con . Prepare Statement (Sel),

Stelement Stmt = Con. Create Statement ();

Writing space for the Problem:(For Student's use only)

```
Result Set 85 = Stmt. execute Coulry (SQ.);
  out Brist b (" Ztable Border = 1 width 250% hought =50% >)
 out Print to C'(te) 2th> empid <(th>2th> emp Name 
   (th> & Salvery Elth > (to>"),
  While (85- next ())
   ξ.
  Integer no 85-get Int C'order number");
  Integer nm = 85-ger Int ("total Amount");
  Integer n = 85.9 et String ("first Name");
  String N=85 get String ("last Name");
  String nows get String ("city");
  string news, get-string ("Country);
  out - Print (n (" < (table >");
  out · Print Con (" < h+ml > < 1 body>");
  Con, close (3),
Catch (Exception e)

Sout · Print (n(e);
```

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