Criteria For Single Table

branchName.select(b.get("branchName"));

branchName.where(b1);

query.where(n1,n2);

list = result.getResultList();
for(Tuple data : list) {
 mapper.map(data,res);

//Select

//where

}

return res;

Predicate b1 = cb.equal(c.get("companyId"),b.get("companyId"));

c.get("productId").alias("PRODUCT_ID"),
b.get("branchName").alias("BRANCH NAME"));

query.multiselect(c.get("entryDate").alias("ENTRY DATE"),

Predicate n1 = cb.equal(c.get("productId"),b.get("productId"));

TypedQuery<Tuple> result = em.createQuery(query);

Predicate n2 = cb.equal(c.get("productName"), b.get("productName"));

```
@PersistenceContext
private EntityManager em;
CriteriaBuilder cb = em.getCriteriaBuilder();
CriteriaQuery<MotorColorMaster> query = cb.createQuery(MotorColorMaster.class);
//Find all
Root<MotorColorMaster> b = query.from(MotorColorMaster.class);
//Select
query.select(b);
//Where
Predicate n1 = cb.equal(b.get("status"),"Y"));
Predicate n2 = cb.equal(b.get("colorId"),req.getColorId());
query.where(n1,n2);
//Get Result
TypedQuery<MotorColorMaster> result = em.createQuery(query);
list=result.getResultList();
for(MotorColorMaster data : list) {
mapper.map(data,res);
return res;
Criteria for Multiple Table
@PersistenceContext
private EntityManager em;
CriteriaBuilder cb = em.getCriteriaBuilder();
CriteriaQuery<Tuple> query = cb.createQuery(Tuple.class);
List<Tuple> list = new ArrayList<Tuple>();
//Find all
Root<CompanyMaster> c = query.from(CompanyMaster.class);
Root<BranchMaster> b = query.from(BranchMaster.class);
//Sub Query
Subquery<String> branchName = query.subquery(String.class);
```

Criteria Queries

1. Greater than

cr.select(root).where(cb.gt(root.get("itemPrice"), 1000));

2. Less than

cr.select(root).where(cb.lt(root.get("itemPrice"), 1000));

3. Item Name contain chair

cr.select(root).where(cb.like(root.get("itemName"), "%chair%"));

4. Item price between 100 to 200

cr.select(root).where(cb.between(root.get("itemPrice"), 100, 200));

5. Items having itemName in Skate Board, Paint and Glue:

cr.select(root).where(root.get("itemName").in("Skate Board", "Paint", "Glue"));

6. Given Property is null

cr.select(root).where(cb.isNull(root.get("itemDescription")));

7. Given Property is not null

cr.select(root).where(cb.isNotNull(root.get("itemDescription")));

8. Add Two Expression

Predicate[] predicates = **new Predicate**[2]; predicates[0] = cb.isNull(root.get("itemDescription")); predicates[1] = cb.like(root.get("itemName"), "chair%"); cr.select(root).where(predicates);

9. Add Two Expression

Predicate greaterThanPrice = cb.gt(root.get("itemPrice"), 1000); **Predicate** chairItems = cb.like(root.get("itemName"), "Chair%");

10. Logical OR Condition

cr.select(root).where(cb.or(greaterThanPrice, chairItems));

11. And Condition

cr.select(root).where(cb.and(greaterThanPrice, chairItems));

12. Sorting

cr.orderBy(cb.asc(root.get("itemName")), cb.desc(root.get("itemPrice")));

13. Row Count

CriteriaQuery<Long> cr = cb.createQuery(Long.class);

Root<Item> root = cr.from(Item.class);

cr.select(cb.count(root));

Query<Long> query = session.createQuery(cr);

List<Long> itemProjected = query.getResultList();

14. Average

CriteriaQuery<Double> cr = cb.createQuery(Double.class);

Root<Item> root = cr.from(Item.class); cr.select(cb.avg(root.get("itemPrice")));

Query<Double> query = session.createQuery(cr);

List avgItemPriceList = query.getResultList();

15. Criteria Update

CriteriaUpdate<Item> criteriaUpdate = cb.createCriteriaUpdate(Item.class); Root<Item> root = criteriaUpdate.from(Item.class); criteriaUpdate.set("itemPrice", newPrice); criteriaUpdate.where(cb.equal(root.get("itemPrice"), oldPrice));

Transaction transaction = session.beginTransaction(); session.createQuery(criteriaUpdate).executeUpdate(); transaction.commit();

16. Criteria Delete

CriteriaDelete<Item> criteriaDelete = cb.createCriteriaDelete(Item.class); Root<Item> root = criteriaDelete.from(Item.class); criteriaDelete.where(cb.greaterThan(root.get("itemPrice"), targetPrice)); Transaction transaction = session.beginTransaction(); session.createQuery(criteriaDelete).executeUpdate(); transaction.commit();