```
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                        project batch 11AM
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        -------------------------------------------
                      Display All rows at UI
                      [Fetch from Database]

#1. Here We need to use Repository method findAll():List<T>  [T=Model
class]
   internally SQL query looks like : select * from tab;

#2. Call this method using Service Layer and Sort data if required by
using Comparator.

#3. Read data in Controller using service and send to UI with Model
memory

#4. At UI use Thymeleaf Loop(forEach loop) and display data in HTML
table format.

------------code-------------------------------------------------
#1. IEmployeeService

   public List<Employee> getAllEmployees();

#2. EmployeeServiceImpl

   public List<Employee> getAllEmployees() {
        List<Employee> list = repo.findAll();
        // Interface ob = (method params) -> {method body;}
        list.sort((e1,e2)->e1.getId()-e2.getId());
        return list;
 }


#3. EmployeeController

        public List<Employee> getAllEmployees() {
                List<Employee> list = repo.findAll();
                // Interface ob = (method params) -> {method body;}
                //list.sort((e1,e2)->e1.getId()-e2.getId());
                list.sort(new Comparator<Employee>() {
                        @Override
                        public int compare(Employee e1, Employee e2) {
                                return e1.getId()-e2.getId();
                                //return
e1.getId().compareTo(e2.getId());
                        }
                });
                return list;
        }

#4. UI : EmployeeData.html

<!DOCTYPE html>
<html xmlns:th="https://www.thymeleaf.org/">
```

```html
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<h3>EMPLOYEE DATA</h3>
<table border="1">
        <tr>
                <td>ID</td>
                <td>NAME</td>
                <td>EMAIL</td>
                <td>GENDER</td>
                <td>ADDRESS</td>
                <td>PROJECTS</td>
                <td>SLOTS</td>
        </tr>
        <tr th:each="ob:${list}">
                <td th:text="${ob.id}"></td>
                <td th:text="${ob.ename}"></td>
                <td th:text="${ob.email}"></td>
                <td th:text="${ob.gender}"></td>
                <td th:text="${ob.eaddr}"></td>
                <td th:text="${ob.prjs}"></td>
                <td th:text="${ob.slots}"></td>
        </tr>
</table>
</body>
</html>
```

```
*) th:each="tempVariable:${collectionName}"  behaves as for-each loop
*) Lambda Expression Syntax:
    Interface ob = (methodParams) -> { Method Body};


EX#1
 interface Math {
    int add(int a,int b);
 }

 Lambda Expression:
   Math m = (a,b) -> { return a+b; }
   Math m = (a,b) ->  a+b;
Ex#2:
 interface Comparator<T> {
     int compare(T o1, T o2);
 }

 Comparator<Employee> com =  ( e1, e2 ) -> { return e1.getId() -
e2.getId();   } //ASC
 Comparator<Employee> com =  ( e1, e2 ) ->  e1.getId() - e2.getId();

 list.sort(cm);
 list.sort((e1, e2) -> e1.getId() - e2.getId());

---Model class-------------------------------------------------------
------
package in.nareshit.raghu.model;
```

```java
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.Id;
import javax.persistence.Table;

import lombok.Data;

@Data
@Entity
@Table(name="uom_tab")
public class Uom {

        @Id
        @GeneratedValue
        @Column(name="uom_id_col")
        private Integer id;

        @Column(name="uom_type_col")
        private String uomType;
        @Column(name="uom_model_col")
        private String uomModel;
        @Column(name="uom_description_col")
        private String description;

}
------------
package in.nareshit.raghu.model;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.Id;
import javax.persistence.Table;

import lombok.Data;

@Data
@Entity
@Table(name="shipment_type_tab")
public class ShipmentType {
        @Id
        @GeneratedValue
        @Column(name="shp_id_col")
        private Integer id;
        @Column(name="shp_mode_col")
        private String shipmentMode;
        @Column(name="shp_code_col")
        private String shipmentCode;
        @Column(name="shp_enable_ship_col")
        private String enableShipment;
        @Column(name="shp_grade_col")
        private String shipmentGrade;
        @Column(name="shp_descriptiion_col")
        private String description;

}
```

ShipmentTypeRepository.java
IShipmentTypeService.java
ShipmentTypeServiceImpl.java
ShipmentTypeController.java
ShipmentTypeRegister.html
ShipmentTypeData.html