Date: 06/02/2021 Spring Boot 9AM

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Data JPA: Association Mapping One-To-One (1...1)

```
=> Parent table one row is connected to Child table one row (at max).
                   1...1
         Passenger ----- BusTicket
ex:
=>*** Use Many-To-One and apply unique Condition (unique=true)
        1...1 = (unique) *...1
Q) Why cant we take 1...* and apply unique for 1...1?
A) YES. You can take.
1...1 = Non-Collection
*...1 = Non-Collection
1...* = Collection. So, we should use List that holds one value.
       Becomes memory waste.
_____
*) SQL Joins : (TASK)
Equal/Equy Join
Cross Join
Self Join
Inner Join
Outer Joins
       Left Join
       Right Join
       Full Join
----code----1...1
1.Model
package in.nareshit.raghu.model;
import javax.persistence.Entity;
import javax.persistence.Id;
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
@Data
@NoArqsConstructor
@AllArgsConstructor
@Entity
public class BusTicket {
       @Id
```

private Integer btid; private String seatNo;

```
private String bfrom;
        private String bto;
        private Double bcost;
}
package in.nareshit.raghu.model;
import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.ManyToOne;
import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;
@Data
@NoArgsConstructor
@AllArgsConstructor
@Entity
public class Passenger {
        private Integer pid;
        private String pname;
        private String gender;
        private Integer age;
        @ManyToOne //1...1
        @JoinColumn(name="tckt id fk",unique = true)
        private BusTicket ticket;
}
2. Repo
package in.nareshit.raghu.repo;
import org.springframework.data.jpa.repository.JpaRepository;
import in.nareshit.raghu.model.BusTicket;
public interface BusTicketRepo
        extends JpaRepository<BusTicket, Integer> {
}
package in.nareshit.raghu.repo;
import org.springframework.data.jpa.repository.JpaRepository;
import in.nareshit.raghu.model.Passenger;
public interface PassengerRepo
        extends JpaRepository<Passenger, Integer> {
}
```

```
3.Runner
package in.nareshit.raghu.runner;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;
import in.nareshit.raghu.model.BusTicket;
import in.nareshit.raghu.model.Passenger;
import in.nareshit.raghu.repo.BusTicketRepo;
import in.nareshit.raghu.repo.PassengerRepo;
@Component
public class DataInsertRunner implements CommandLineRunner {
        @Autowired
        private BusTicketRepo brepo;
        @Autowired
        private PassengerRepo prepo;
        @Override
        public void run(String... args) throws Exception {
                BusTicket b1 = new BusTicket(110, "A01", "HYD", "CHN",
500.0);
                BusTicket b2 = new BusTicket(111, "A02", "HYD", "DHL",
600.0);
                BusTicket b3 = new BusTicket(112, "A03", "HYD", "MUM",
700.0);
                brepo.save(b1);
                brepo.save(b2);
                brepo.save(b3);
                Passenger p1 = new Passenger(85, "ABD", "M", 50, b1);
                Passenger p2 = new Passenger(86, "MNO", "F", 36, b2);
                Passenger p3 = new Passenger(87, "PQR", "M", 28, b3);
                prepo.save(p1);
                prepo.save(p2);
                prepo.save(p3);
        }
}
4. yaml
spring:
  datasource:
    driver-class-name: com.mysql.cj.jdbc.Driver
    url: jdbc:mysql://localhost:3306/boot9am
    username: root
   password: root
  jpa:
    show-sql: true
   hibernate:
```

ddl-auto: create

database-platform: org.hibernate.dialect.MySQL8Dialect