

- To create the same schema using JPA (Java Persistence API), you would typically define entity classes that map to your database tables.

## ❖ JPA Entity Classes:

### ➤ Product Entity:

```
import javax.persistence.*;

@Entity
@Table(name = "product")
public class Product {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    private String name;
    private String description;
    private String SKU;

    @ManyToOne
    @JoinColumn(name = "category_id")
    private ProductCategory category;

    @ManyToOne
    @JoinColumn(name = "inventory_id")
    private ProductInventory inventory;

    private BigDecimal price;

    @ManyToOne
    @JoinColumn(name = "discount_id")
    private Discount discount;

    @Column(name = "created_at")
    private LocalDateTime createdAt;

    @Column(name = "modified_at")
    private LocalDateTime modifiedAt;

    @Column(name = "deleted_at")
    private LocalDateTime deletedAt;

    // Getters and setters, constructors
}
```

### ➤ **Product\_Category Entity:**

```
import javax.persistence.*;

@Entity
@Table(name = "product_category")
public class ProductCategory {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    private String name;
    private String description;

    @Column(name = "created_at")
    private LocalDateTime createdAt;

    @Column(name = "modified_at")
    private LocalDateTime modifiedAt;

    @Column(name = "deleted_at")
    private LocalDateTime deletedAt;

    // Getters and setters, constructors
}
```

### ➤ **Product\_Inventory Entity:**

```
import javax.persistence.*;

@Entity
@Table(name = "product_inventory")
public class ProductInventory {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long id;
    private int quantity;

    @Column(name = "created_at")
    private LocalDateTime createdAt;

    @Column(name = "modified_at")
    private LocalDateTime modifiedAt;

    @Column(name = "deleted_at")
    private LocalDateTime deletedAt;
```

```
// Getters and setters, constructors  
}
```

### ➤ **Discount Entity:**

```
import javax.persistence.*;  
  
@Entity  
@Table(name = "discount")  
public class Discount {  
  
    @Id  
    @GeneratedValue(strategy = GenerationType.IDENTITY)  
    private Long id;  
    private String name;  
    private String description;  
  
    @Column(name = "discount_percent")  
    private BigDecimal discountPercent;  
  
    private boolean active;  
  
    @Column(name = "created_at")  
    private LocalDateTime createdAt;  
  
    @Column(name = "modified_at")  
    private LocalDateTime modifiedAt;  
  
    @Column(name = "deleted_at")  
    private LocalDateTime deletedAt;  
  
    // Getters and setters, constructors  
}
```