# 第一节

## 引入依赖

<dependency>  
 <groupId>mysql</groupId>  
 <artifactId>mysql-connector-java</artifactId>  
</dependency>  
  
<dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-data-jpa</artifactId>  
</dependency>  
  
<dependency>  
 <groupId>org.projectlombok</groupId>  
 <artifactId>lombok</artifactId>  
</dependency>

## 配置数据库

spring:  
 datasource:  
 driver-class-name: com.mysql.jdbc.Driver  
 username: root  
 password: root  
 url: jdbc:mysql://localhost:3306/sell?characterEncoding=utf-8&useSSL=false  
 jpa:  
 show-sql: true

## pojo

@Entity  
@DynamicUpdate  
@Data  
public class ProductCategory {  
  
 @Id//命名主键  
 @GeneratedValue//自增  
 private Integer categoryId;  
  
 private String categoryName;  
  
 private Integer categoryType;  
  
}

@entity是映射成实体

@dynamicupdate是动态更新

@data是自动完成get set string 等

## mapper层

public interface ProductCategoryMapper extends JpaRepository<ProductCategory, Integer> {  
 // 查询一个字段里面的多个值返回这些值的list  
 List<ProductCategory> findByCategoryTypeIn(List<Integer> categoryTypeList);  
}

## service和impl

public interface CategroyService {  
  
 ProductCategory findOne(Integer id);  
  
 List<ProductCategory> findAll();  
  
 List<ProductCategory> findByCategoryTypeIn(List<Integer> typeList);  
  
 ProductCategory save(ProductCategory productCategory);  
}

@Service  
public class CategroyServiceImpl implements CategroyService {  
  
 @Resource  
 private ProductCategoryMapper repository;  
  
 @Override  
 public ProductCategory findOne(Integer id) {  
 return repository.findOne(id);  
 }  
  
 @Override  
 public List<ProductCategory> findAll() {  
 return repository.findAll();  
 }  
  
 @Override  
 public List<ProductCategory> findByCategoryTypeIn(List<Integer> typeList) {  
 return repository.findByCategoryTypeIn(typeList);  
 }  
  
 @Override  
 public ProductCategory save(ProductCategory productCategory) {  
 return repository.save(productCategory);  
 }  
}

## 测试

@RunWith(SpringRunner.class)  
@SpringBootTest  
public class CategroyServiceImplTest {  
  
 @Resource  
 private CategroyServiceImpl categroyService;  
  
 @Before  
 public void setUp() throws Exception {  
 }  
  
 @Test  
 public void findOne() throws Exception {  
 ProductCategory productCategory = categroyService.findOne(1);  
 Assert.assertEquals(new Integer(1), productCategory.getCategoryId());  
 }  
  
 @Test  
 public void findAll() throws Exception {  
 List<ProductCategory> list = categroyService.findAll();  
 Assert.assertNotEquals(0, list.size());  
 }  
  
 @Test  
 public void findByCategoryTypeIn() throws Exception {  
 List<ProductCategory> list = categroyService.findByCategoryTypeIn(Arrays.asList(3, 4));  
  
 Assert.assertNotEquals(0, list.size());  
 }  
  
 @Test  
 public void save() throws Exception {  
 ProductCategory productCategory = new ProductCategory();  
 productCategory.setCategoryName("女生专");  
 productCategory.setCategoryType(5);  
 ProductCategory category = categroyService.save(productCategory);  
 Assert.assertNotNull(category);  
 }  
  
}

## controller