

2024년 상반기 K-디지털 트레이닝

Travel

[KB] IT's Your Life



Travel

☑ 데이터

- o travel.csv
 - 한국 관광공사 선정 100대 관광지
 - 순번, 지역, 제목, 설명, 주소, 전화번호
- o CSV 처리 라이브러리
 - implementation 'com.opencsv:opencsv:5.5'
- 관광지별 이미지
 - id-순번.jpg

travel.sql

```
DROP TABLE IF EXISTS travel;
CREATE TABLE travel (
             INT AUTO_INCREMENT NOT NULL PRIMARY KEY,
 no
 district
             VARCHAR(50) NOT NULL,
 title
             VARCHAR(512) NOT NULL,
 description TEXT,
 address
             VARCHAR(512),
  phone
             VARCHAR(256)
DROP TABLE IF EXISTS travel_image;
CREATE TABLE travel_image (
             INT AUTO_INCREMENT NOT NULL PRIMARY KEY,
 no
 travel no
             INT,
 file_name
             VARCHAR(128) NOT NULL,
  path
             VARCHAR(512) NOT NULL,
 size
             INT,
 CONSTRAINT FOREIGN KEY(travel_no) REFERENCES travel(no)
);
```

TravelVO.java

```
package org.scoula.travel.domain;
@Data
@AllArgsConstructor
@NoArgsConstructor
@Builder
public class TravelVO {
    private int no;
    private String district;
    private String title;
    private String description;
    private String address;
    private String phone;
```

TravelDao.java

```
package org.scoula.travel.dao;
import org.scoula.travel.domain.TravelVO;
import java.sql.SQLException;
public interface TravelDao {
    void create(TravelVO travel) throws SQLException;
}
```

TravelDaoImpl.java

```
package org.scoula.travel.dao;
@Component
public class TravelDaoImpl implements TravelDao{
   @Autowired
    Connection conn;
   @Override
    public void create(TravelVO travel) throws SQLException {
       String sql = "insert into travel values(?,?,?,?,?)";
        try(PreparedStatement ps = conn.prepareStatement(sql)){
           ps.setInt(1, travel.getNo());
           ps.setString(2, travel.getDistrict());
           ps.setString(3, travel.getTitle());
           ps.setString(4, travel.getDescription());
           ps.setString(5, travel.getAddress());
           ps.setString(6, travel.getPhone());
           ps.executeUpdate();
```

TravelDaoImplTest.java

```
package org.scoula.travel.dao;
import com.opencsv.bean.CsvToBeanBuilder;
...

@ExtendWith(SpringExtension.class)
@ContextConfiguration(classes = { ProjectConfig.class })
class TravelDaoImplTest {
    @Autowired
    TravelDao dao;
```

TravelDaoImplTest.java

Travel

☑ 관광지별 이미지 데이터 등록하기

- o c:/travel-image 폴더 준비
 - 각 이미지 파일 포맷
 - tarval_id-순번.jpg

Travellmage.java

```
@Data
@NoArgsConstructor
@AllArgsConstructor
@Builder
public class TravelImageV0 {
    private Long no;
    private Long travelNo;
    private String fileName;
    private String path;
    private long size;
    public static TravelImageVO of(File file) {
        return TravelImageV0.builder()
                .travelNo(Long.parseLong(file.getName().substring(0,3)))
                .fileName(file.getName())
                .path(file.getPath())
                .size(file.length())
                .build();
```

TravelDaoTest.java

```
@Test
void createTravelImages() throws IOException {
    String dir = "D:\\travel-image";
    List<TravelImageV0> files = Files.list(Paths.get(dir))
            .map(Path::toFile)
            .map(TravelImageV0::of)
            .toList();
    for(TravelImageVO file: files) {
        System.out.println(file);
```

TravelDao.java

```
package org.scoula.travel.dao;
import org.scoula.travel.domain.TravelVO;
import java.sql.SQLException;

public interface TravelDao {
    void create(TravelVO travel) throws SQLException;

    void createImage(TravelImageVO image) throws SQLException;
}
```

TravelDaoImpl.java

```
package org.scoula.travel.dao;
public class TravelDaoImpl implements TravelDao{
    @Override
    void createImage(TravelImageV0 image) throws SQLException;
        String sql = "insert into travel_image(travel_no, file_name, path, size) values(?,?,?,?)";
        try(PreparedStatement ps = conn.prepareStatement(sql)){
            ps.setInt(1, travel.getNo());
            ps.setString(2, travel.getFileName());
            ps.setString(3, travel.getPath());
            ps.setLong(4, travel.getSize());
            ps.executeUpdate();
```

TravelDaoTest.java

```
@Test
void createTravelImages() throws IOException {
    String dir = "D:\\travel-image";
    List<TravelImageVO> files = Files.list(Paths.get(dir))
            .map(Path::toFile)
            .map(TravelImageV0::of)
            .toList();
    for(TravelImageVO file: files) {
        System.out.println(file);
        dao.createImage(file);
```