# **GraphQL API Example – part 3**

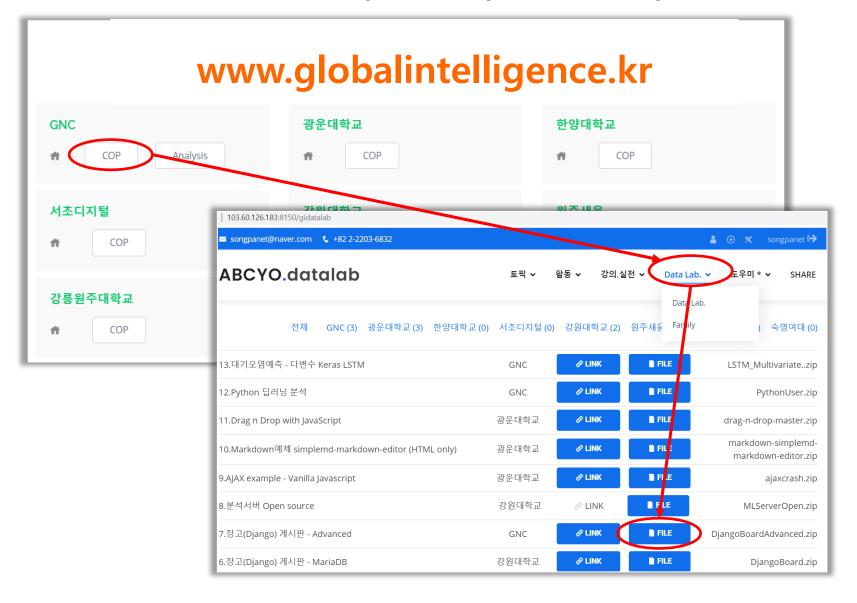
Django graphene – 조회,등록,수정,삭제 graphql

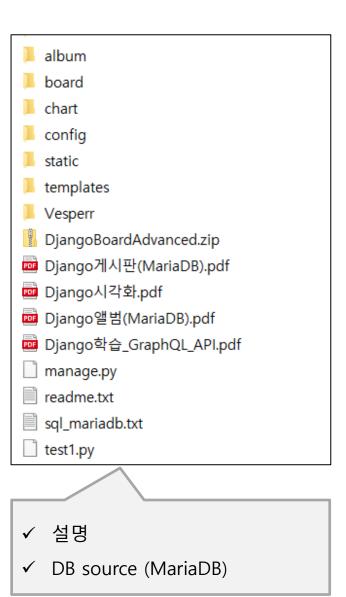
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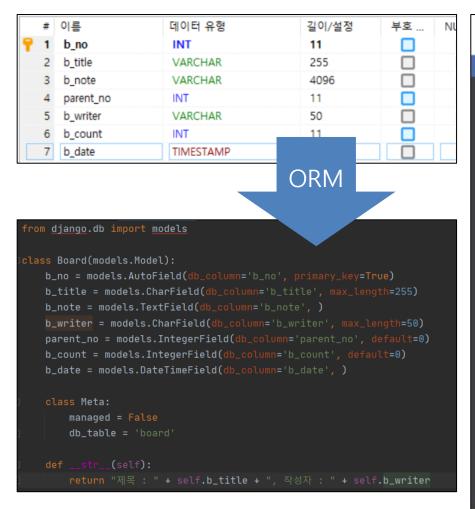
#### Source download

#### COP → Data Lab. → 7번의 FILE을 다운로드 받는다.

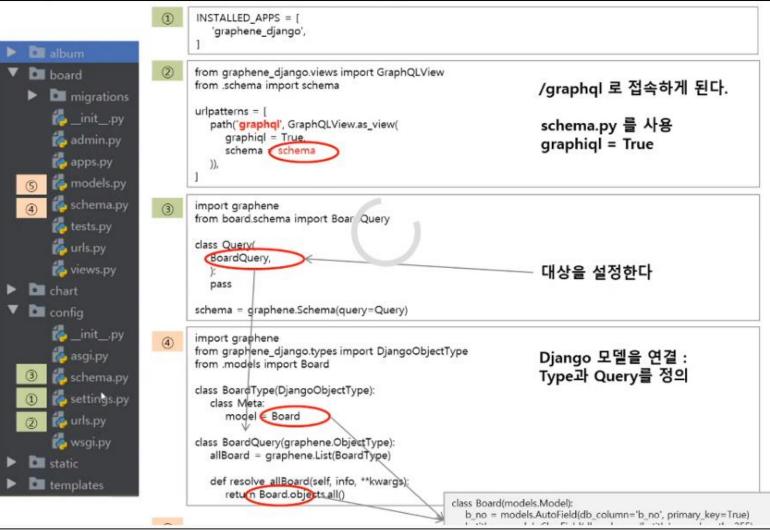




## Data (게시판 테이블)



## Django source 구성



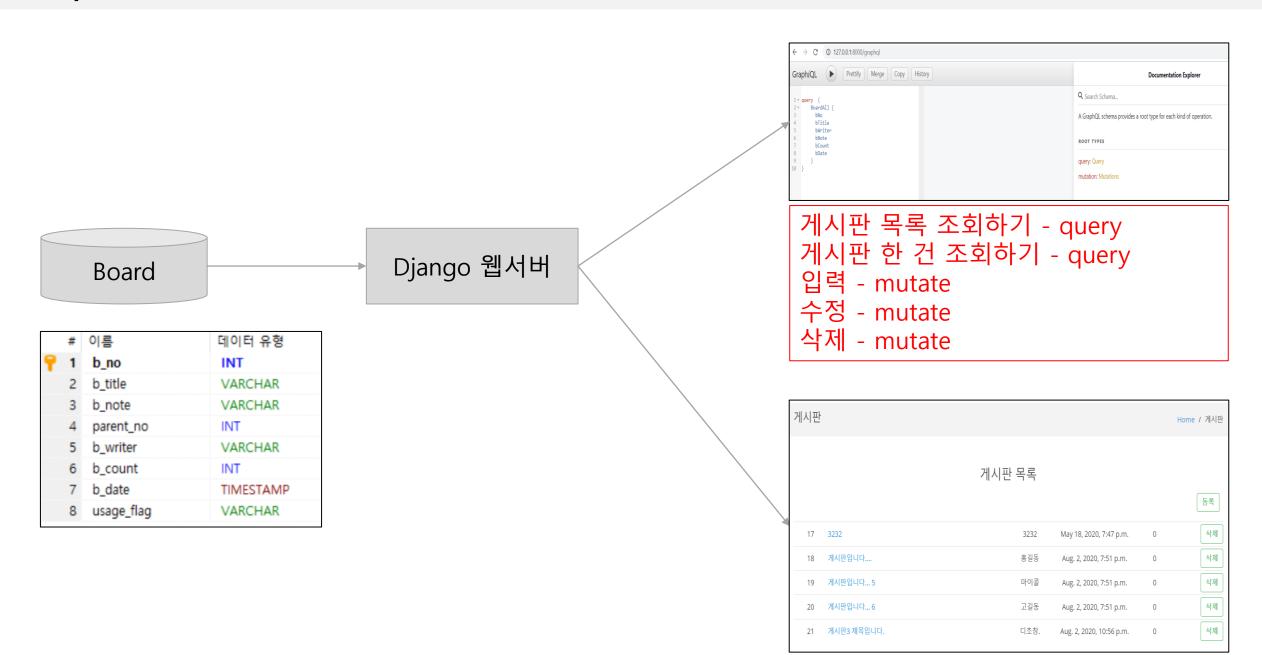
#### Mutation

#### Query

```
class Board(graphene.ObjectType):
   b no = graphene.ID()
   b_title = graphene.String()
   b_writer = graphene.String()
   b_note = graphene.String()
   d count = graphene.Int()
   b date = graphene.DateTime()
class Query(graphene.ObjectType):
   boards = graphene.List(Board)
   def resolve_boards(self, info):
       return [
           Board(b_title='Title입니다.1', b_writer='고길동', b_note='내용입니다
           Board(b_title='Title입니다.2', b_writer='홍길동', b_note='내용입니다
           Board(b_title='Title입니다.3', b_writer='타이손', b_note='내용입니다
                                     니다. 1', b count=0, b date=datetime.now()),
                                     니다. 2', b_count=0, b_date=datetime.now()),
|schema = graphene.Schema(query=Query)
                                     니다. 3', b_count=0, b_date=datetime.now())
result = schema.execute(
       boards {
           bTitle
   1.1.1
```

```
class CreateBoard(graphene.Mutation):
    class Arguments:
        btitle = graphene.String()
    board = graphene.Field(Board)
    def mutate(self, info, btitle):
        if info.context.get ('is vip'):
            btitle = btitle.upper()
        board = Board(btitle=btitle)
        return CreateBoard(board=board)
class Mutations(graphene.ObjectType):
    create user = CreateBoard.Field()
schema = graphene.Schema(mutation=Mutations)
result = schema.execute(
    mutation createUser ($btitle: String) {
        createUser(btitle: $btitle) {
            board {
                btitle
    variable_values={'btitle':'제목45w3535322... Time is Gold'},
    context={'is_vip':True}
print(result)
```

## GraphQL API와 게시판



### **GraphQL – Query, Mutation, Subscription**

#### Query

```
GraphiQL
                       Prettify
                                                    History
                                 Merge
                                           Copy
                                                                                                                          ≺ Schema
                                                                                                                          Q Search Query...
      query {
1 ▼
          BoardAll {
2 🔻
                                            "data": {
             bNo
3
                                               "BoardAll": [
                                                                                                                          No Description
             bTitle
4
                                                  "bNo": "5",
5
            bWriter
                                                  "bTitle": "제목5입니다.",
6
             bNote
                                                                                                                          FIELDS
                                                  "bWriter": "고길동",
             bCount
                                                  "bNote": "내용입니다....",
8
             bDate
9
                                                  "bCount": 1,
                                                                                                                          BoardAll: [BoardType]
                                                  "bDate": "2020-09-21T15:46:46+00:00"
10
                                                                                                                          BoardDetail(bNo: Int!): BoardType
```

✓ Schema

): BoardUpdate

Mutations

```
Q Search Mutations...
1 v mutation BoardCreate {
2 v boardCreate(bTitle: "명절 잘 보내세요.", bWriter: "한가위", bNote: "Merry thanks giving day!") { v
                                                                                                        "data": {
       board {
                                                                                                           "boardCreate": {
                                                                                                                                                       No Description
         bNo
                                                                                                            "board": {
         bTitle
                                                                                                              "bNo": "21",
                                                                                                              "bTitle": "명절 잘 보내세요.",
         bWriter
                                                                                                                                                       FIELDS
                                                                                                              "bWriter": "한가위",
         bNote
                                                                                                              "bNote": "Merry thanks giving day!",
         bCount
9
                                                                                                                                                       boardCreate(
                                                                                                               "bCount": 0
10
                                                                                                                                                        bNote: String
11 }
                                                                                                                                                        bTitle: String
                                                                                                                                                        bWriter: String
                                                                                                                                                       ): BoardCreate
                                                                                                                                                       boardDelete(bNo: Int): BoardDelete
                                                                                                                                                       boardUpdate(
                                                                                                                                                        bNo: Int
                                                                                                                                                        bNote: String
                                                                                                                                                        bTitle: String
                                                                                                                                                        bWriter: String
```

History

Merge

Copy

#### **Mutations**

GraphiQL