

올인원 패키지 Online.

Django ORM

PART1 | Frontend, Backend 그리고 DB

PART2 | ORM 이란?

PART3 | Django ORM

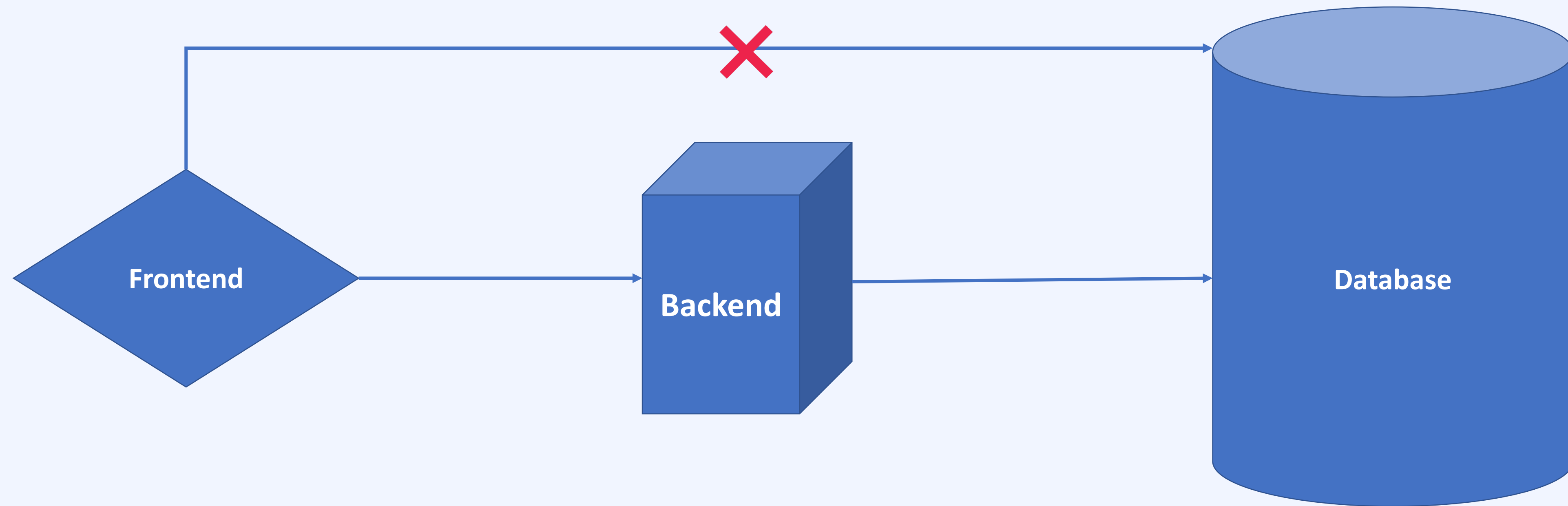
PART4 | Django Debug Toolbar

Github : <https://github.com/riseryan89/shrinkers>

Commit ID: 4b79881

1. Frontend, Backend 그리고 DB

1.
Django ORM



2. ORM이란?

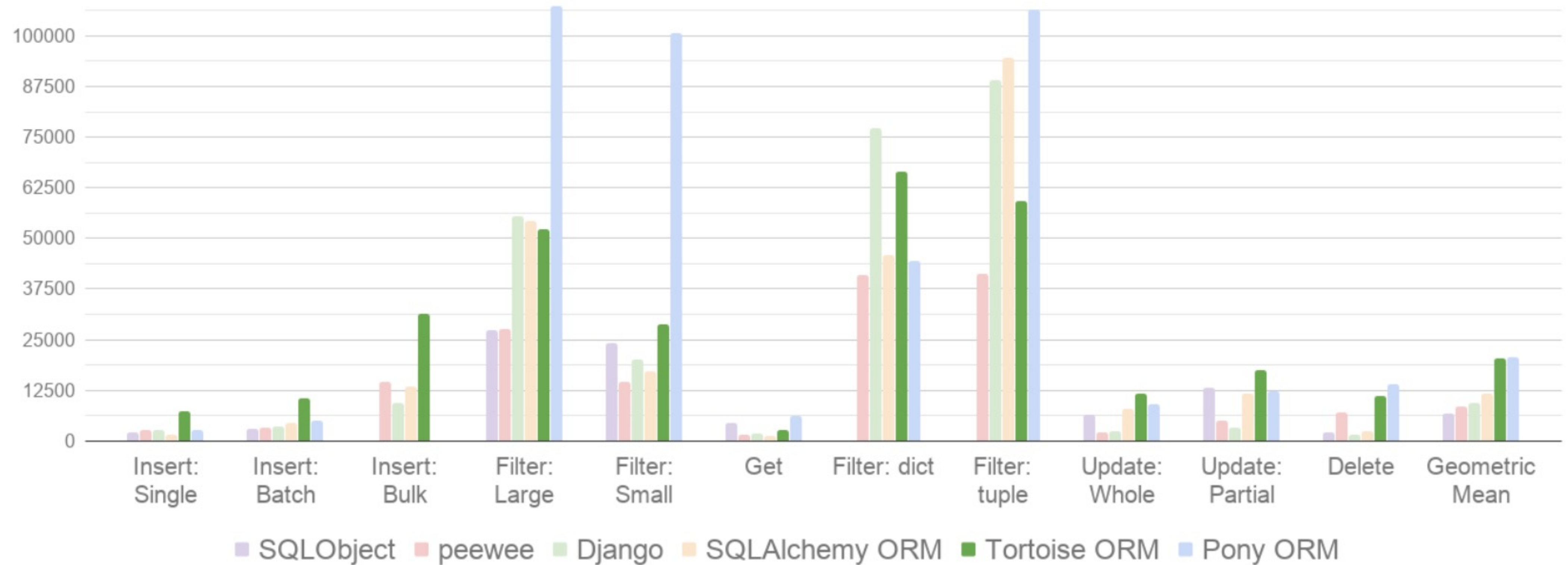
Object Relational Mapping, 객체-관계 매핑

- Python 객체와 관계형 데이터베이스 연결
- SQL 쿼리를 자동으로 생성함
- 데이터베이스 데이터 <—매핑—> Python Object
- 객체를 통해 간접적으로 데이터베이스 데이터 핸들링
- Django ORM, SQLAlchemy, Pony

장점	단점
<ul style="list-style-type: none">• 직관적이다.• SQL 학습 시간 보다 Business Logic에 더 집중할 수 있다.• 가독성이 올라간다. Zen of Python• 코드 재사용 및 유지보수가 수월함• DBMS 종속성이 줄어든다.• SQL Injection 을 막아준다.	<ul style="list-style-type: none">• Raw 쿼리가 필요한 구간이 반드시 있다.• 프로젝트의 복잡도가 올라가면, ORM 난이도도 올라간다.• 프로시저 사용이 수월하지 않다.

2. ORM이란?

Python ORM performance



3. Django ORM

공식문서 : <https://docs.djangoproject.com/en/3.2/topics/db/queries/>

.get()
.all()
.filter()
.save()
.delete()
.update()
.exists()
.first()
.count()
.select_related()
.prefetch_related()
.order_by()

4. Django Debug Toolbar

4.

Django ORM

← → ↺ ⓘ 127.0.0.1:8000

SQL queries from 1 connection

default 1.27 ms (10 queries including 10 similar and 10 duplicates)

Query	Timeline	Time (ms)	Action
<div><div>+</div><div>SELECT . . . FROM "shortener_users" WHERE "shortener_users"."username" = ""admin"" ORDER BY "shortener_users"."id" ASC LIMIT 1</div><div>10 similar queries. Duplicated 10 times.</div></div>		0.36	<div>Sel</div> <div>Expl</div>
<div><div>+</div><div>SELECT . . . FROM "shortener_users" WHERE "shortener_users"."username" = ""admin"" ORDER BY "shortener_users"."id" ASC LIMIT 1</div><div>10 similar queries. Duplicated 10 times.</div></div>		0.10	<div>Sel</div> <div>Expl</div>
<div><div>+</div><div>SELECT . . . FROM "shortener_users" WHERE "shortener_users"."username" = ""admin"" ORDER BY "shortener_users"."id" ASC LIMIT 1</div><div>10 similar queries. Duplicated 10 times.</div></div>		0.11	<div>Sel</div> <div>Expl</div>
<div><div>+</div><div>SELECT . . . FROM "shortener_users" WHERE "shortener_users"."username" = ""admin"" ORDER BY "shortener_users"."id" ASC LIMIT 1</div><div>10 similar queries. Duplicated 10 times.</div></div>		0.11	<div>Sel</div> <div>Expl</div>
<div><div>+</div><div>SELECT . . . FROM "shortener_users" WHERE "shortener_users"."username" = ""admin"" ORDER BY "shortener_users"."id" ASC LIMIT 1</div><div>10 similar queries. Duplicated 10 times.</div></div>		0.09	<div>Sel</div> <div>Expl</div>
<div><div>+</div><div>SELECT . . . FROM "shortener_users" WHERE "shortener_users"."username" = ""admin"" ORDER BY "shortener_users"."id" ASC LIMIT 1</div><div>10 similar queries. Duplicated 10 times.</div></div>		0.10	<div>Sel</div> <div>Expl</div>
<div><div>+</div><div>SELECT . . . FROM "shortener_users" WHERE "shortener_users"."username" = ""admin"" ORDER BY "shortener_users"."id" ASC LIMIT 1</div><div>10 similar queries. Duplicated 10 times.</div></div>		0.10	<div>Sel</div> <div>Expl</div>
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<div><div>+</div><div>SELECT . . . FROM "shortener_users" WHERE "shortener_users"."username" = ""admin"" ORDER BY "shortener_users"."id" ASC LIMIT 1</div><div>10 similar queries. Duplicated 10 times.</div></div>		0.12	<div>Sel</div> <div>Expl</div>
<div><div>+</div><div>SELECT . . . FROM "shortener_users" WHERE "shortener_users"."username" = ""admin"" ORDER BY "shortener_users"."id" ASC LIMIT 1</div><div>10 similar queries. Duplicated 10 times.</div></div>		0.10	<div>Sel</div> <div>Expl</div>

Hide >>

History ☒

Versions ☒

Django 3.2

Time ☒

CPU: 223.13ms (222.34ms)

Settings ☒

Headers ☒

Request ☒

index

SQL ☒

10 queries in 1.27ms

Static files ☒

0 files used

Templates ☒

base.html

Cache ☒

0 calls in 0.00ms

Signals ☒

28 receivers of 15 signals

Logging ☒

0 messages

Intercept redirects ☒

Profiling ☒

공식문서 :

<https://django-debug-toolbar.readthedocs.io/en/latest/>