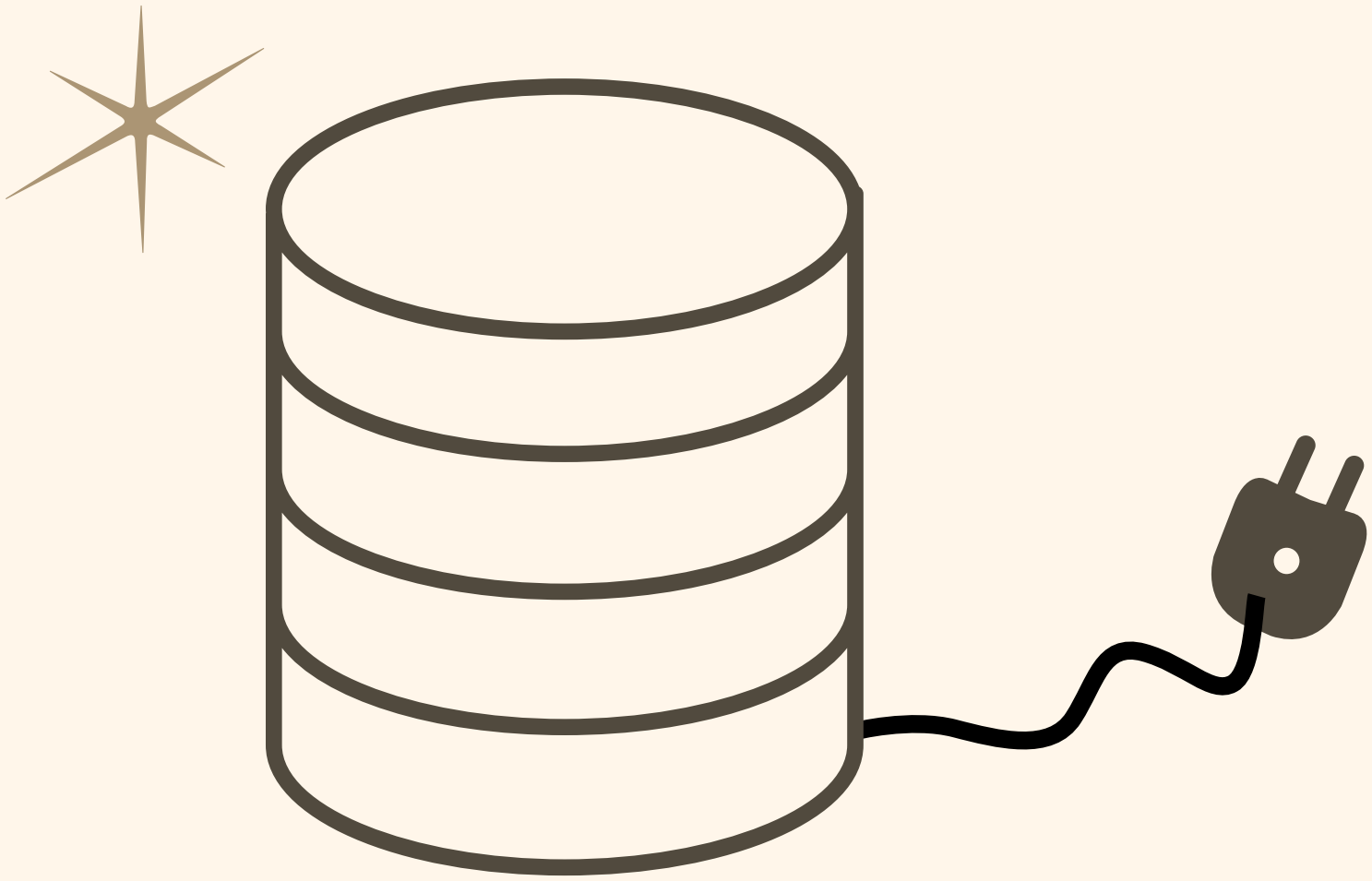
TDW

THE DEV WORLD

SERGIO LEMA

HOW WORKS A TRANSACTION?



HOW DOES A TRANSACTION WORK?

```
public void updateVehicle(
 VechileDto dto) {
 Vehicle vehicle = repo
 .findById(dto.id());

 vehicle.brand(dto.brand());

 vehicle.model(dto.model());

 repo.save(vehicle);
}
```

At this point, the vehicle in the database remains unchanged.

HOW DOES A TRANSACTION WORK?

```
public void updateVehicle(
 VechileDto dto) {
 Vehicle vehicle = repo
 .findById(dto.id());

 vehicle.brand(dto.brand());

 vehicle.model(dto.model());

 repo.save(vehicle);
}
```

All the changes are pushed to the database with this command.

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HOW DOES A TRANSACTION WORK?

```
@Transactional
public void updateVehicle(
 VechileDto dto) {
 Vehicle vehicle = repo
 .findById(dto.id());

 vehicle.brand(dto.brand());

 vehicle.model(dto.model());

 repo.save(vehicle);
}
```

All the changes are pushed to the database at the end of the method.

This line is no more needed.

HOW DOES A TRANSACTION WORK?

I can define use the annotation at the class level.

```
@Transactional(readOnly = true)
public class VehicleService {
  ...
}
```

A best practice is to set readOnly at a class level, and override at a method level.

HOW DOES A TRANSACTION WORK?

```
@Transactional
public void updateVehicle(
 VechileDto dto) {
 Vehicle vehicle = repo
 .findById(dto.id());

 vehicle.brand(dto.brand());

 anotherSerive.check();

 vehicle.model(dto.model());
}
```

Another transaction will be created inside this method.

The parent transaction will continue from here.