Hamarosan kezdünk…

Adatbázis programozás JPA alapokon haladóknak
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2016

Adatbázis programozás JPA alapokon haladóknak 7. nap

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Java Persistence

- Management of persistent data
  - Data is stored in a (relational) database
  - But we use Java (objects in the memory)

Overview

- What is an entity?

    - Peter Chen (1976): „Things that have attributes and relationships."

    - The expectation is that „the attributes and relationships would be persisted in a relational database."

JPA - Overview

- JPA is
  - Entity metadata (@Annotations)
  - API
  - Queries (JPQL, criteria)

JPA - Relations

```java
@Entity
public class Employee {

  @ManyToOne
  private Department department;
}

@Entity
public class Department {

  @OneToMany(mappedBy = "employee")
  List<Employee> employees;
}
```

```java
@Entity
public class Employee {

  @OneToMany
  private List<Phone> phones;
}
```

```java
@Entity
public class Employee {

    @OneToOne
    private ParkingPlace parkingPlace;
}

@Entity
public class ParkingPlace {

  @OneToOne(mappedBy = "parkingPlace")
  private Employee employee;
}
```
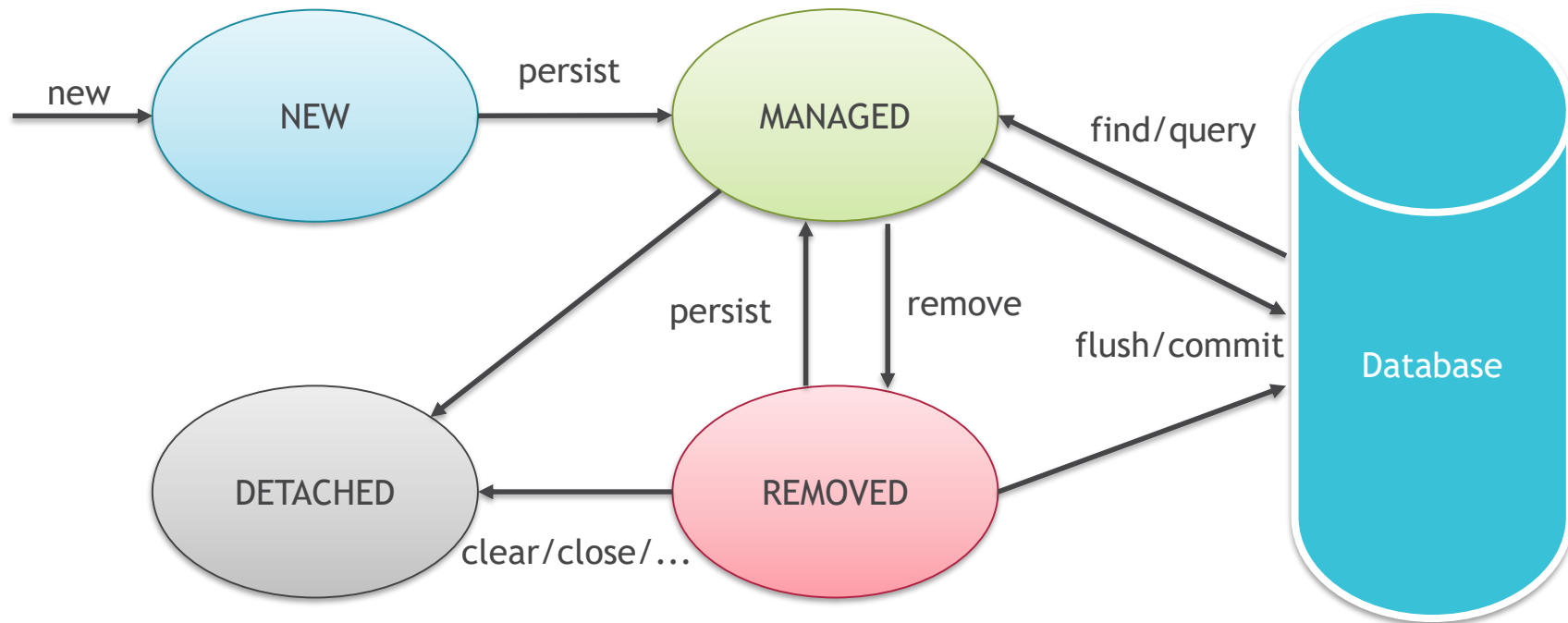
```java
@Entity
public class Employee {

  @ManyToMany
  private List<Project> projects;

}

@Entity
public class Project {

  @ManyToMany(mappedBy = "projects")
  private List<Employee> employees;
}
```
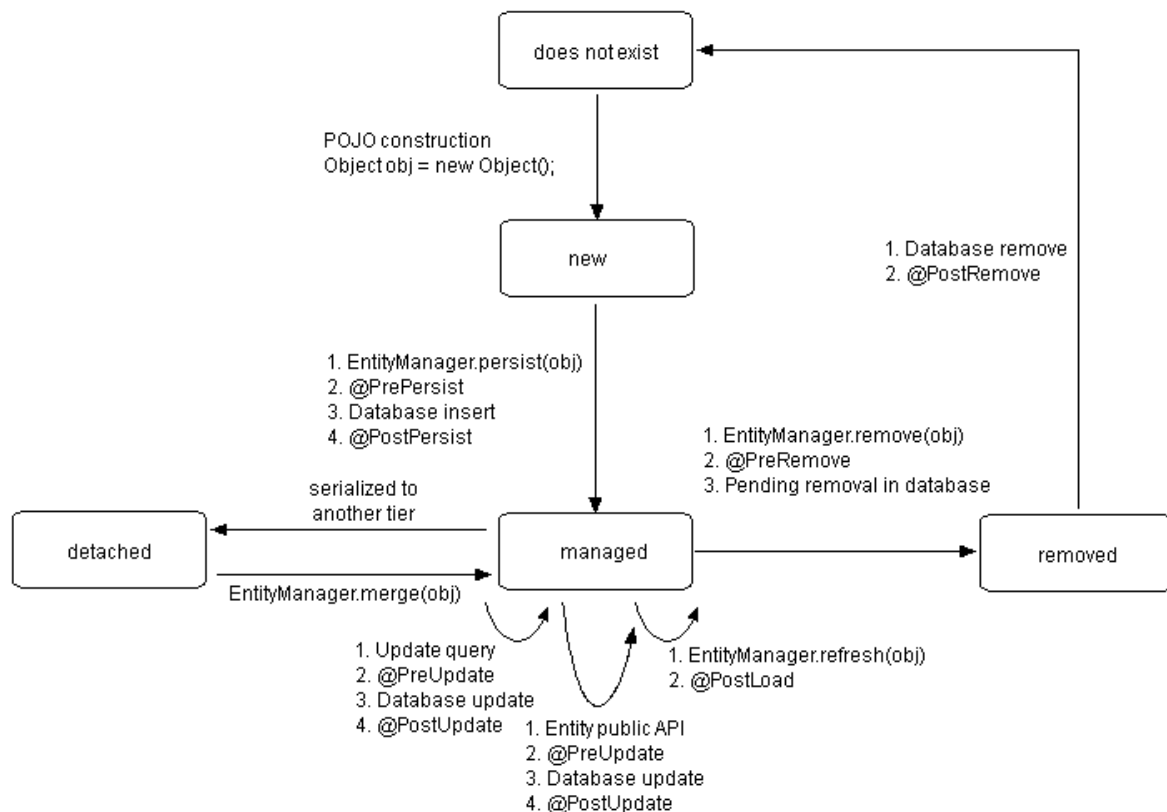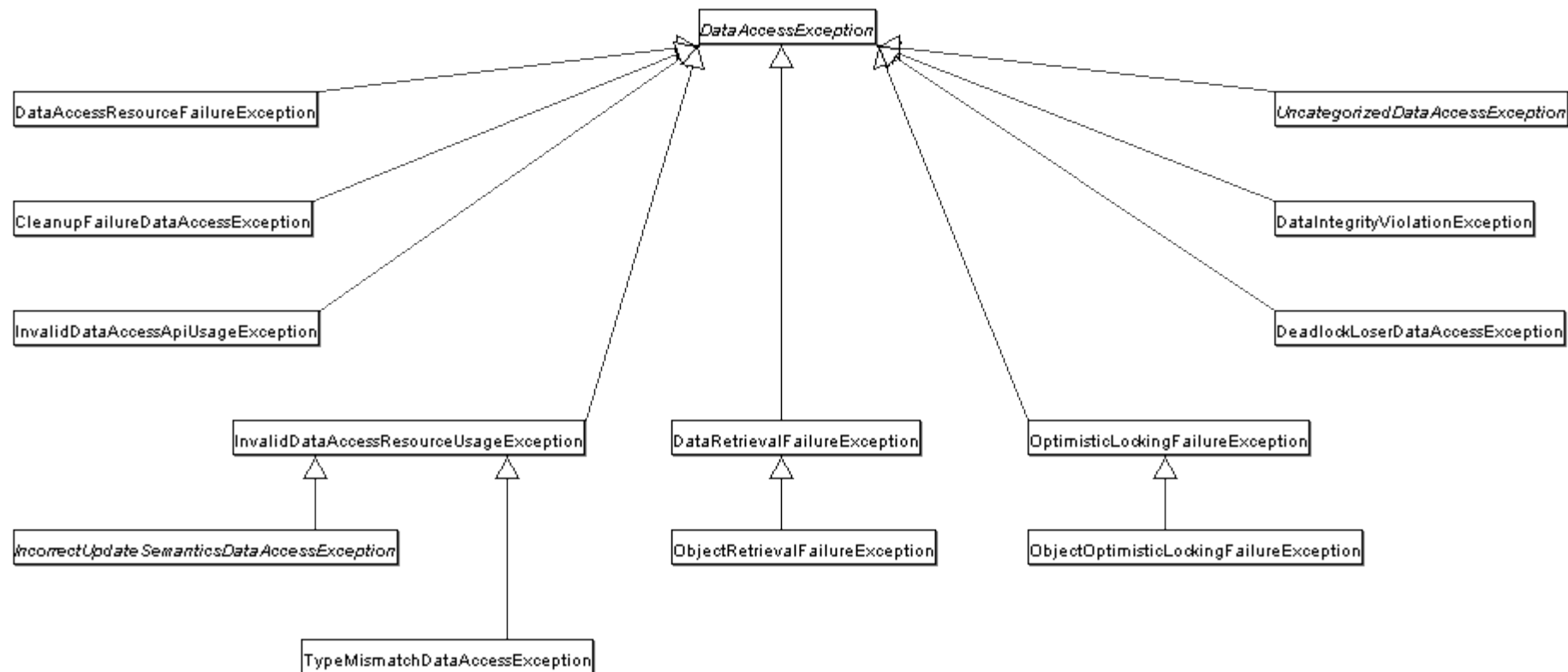
Entity object life-cycle

JPA - @Repository

DataAccessException

DataAccessResourceFailureException

UncategorizedDataAccessException

CleanupFailureDataAccessException

DataIntegrityViolationException

InvalidDataAccessApiUsageException

DeadlockLoserDataAccessException

InvalidDataAccessResourceUsageException

DataRetrievalFailureException

OptimisticLockingFailureException

IncorrectUpdateSemanticsDataAccessException

ObjectRetrievalFailureException

ObjectOptimisticLockingFailureException

TypeMismatchDataAccessException

Szünet, Hamarosan folytatjuk

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Köszönöm a figyelmet!

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