

Spring Data JPA Quiz without Keys

Points:52

Time:30 min

1. What is the aim of Spring Data JPA?

- a) Spring Data JPA aims to reduce the amount of boilerplate code required for common database operations.
- b) Spring Data JPA aims to provide the implementation for JPA interfaces
- c) Spring Data JPA is a JPA provider and implementation for JPA interfaces
- d) Spring Data JPA is an ORM framework that provides an implementation for JPA interfaces

2. Which dependency is required to use Spring Data JPA in a Spring Boot application?

- a) spring-boot-starter-data-jpa
- b) spring-boot-starter-web
- c) spring-boot-starter-test
- d) spring-boot-starter-security

3. Which is the default JPA provider the Spring Data JPA internally uses?

- a) EclipseLink
- b) MyBatis
- c) TopLink
- d) Hibernate

4. Which annotation marks a class as an entity in JPA?

- a) @EntityClass
- b) @JPAEntity
- c) @Entity
- d) @TableEntity

5. Which interface do we extend to create a repository in Spring Data JPA?

- a) Repository
- b) JpaRepository
- c) JpaRepository
- d) SpringRepository

6. What is the default implementation class of the JpaRepository interface?

- a) JpaRepositoryImpl class
- b) SimpleJpaRepository class
- c) DeafultJpaRepository class
- d) SimpleCrudRepository class

7. How can you define a derived query in Spring Data JPA?

- a) By annotating a method with @Query
- b) By creating a method in the repository with a specific naming convention
- c) By using the @DerivedQuery annotation
- d) By creating an XML configuration

8. Which annotation is commonly used to mark a repository interface in Spring Data JPA?

- a) @Service
- b) @Component
- c) @Controller
- d) @Repository

9. Which annotation is used to autowire a repository into a Spring component?

- a) @InjectRepository
- b) @AutoInject
- c) @Autowire
- d) @Resource

10. Which of the following is NOT a fetch type in JPA?

- a) EAGER
- b) LAZY
- c) IMMEDIATE
- d) BOTH

11. How do you execute a native query in Spring Data JPA?

- a) @Native
- b) @SQL
- c) @Execute
- d) @Query(nativeQuery = true)

12. Which of the following is NOT a valid Cascade type in JPA?

- a) PERSIST
- b) REMOVE
- c) MERGE
- d) UPDATE

13. How can you mark a field as the primary key in a JPA entity?

- a) @PrimaryKey
- b) @EntityKey
- c) @Id
- d) @Key

14. What is the purpose of the @GeneratedValue annotation in Spring Data JPA?

- a) To specify the table name for entity mapping.

- b) To define the primary key column in an entity.
- c) To configure the fetching strategy for related entities.
- d) To automatically generate primary key values for entities.

15. How can you customize the column name for a field in a JPA entity?

- a) `@Column(name="custom_name")`
- b) `@FieldName("custom_name")`
- c) `@TableColumn("custom_name")`
- d) `@DatabaseColumn("custom_name")`

16. Which annotation is used to specify a custom query in Spring Data JPA?

- a) `@CustomQuery`
- b) `@JPAQuery`
- c) `@Query`
- d) `@ExecuteQuery`

17. Which annotation is used to create a Named JPQL query?

- a) `@NamedQuery`
- b) `@NamedJPQLQuery`
- c) `@NamedNativeQuery`
- d) `SQLQuery`

18. How can you indicate a Many-To-One relationship in JPA?

- a) `@ManyToOne`
- b) `@OneToMany`
- c) `@ManyToMany`
- d) `@OneToOne`

19. In a Spring Data JPA repository, how can you indicate a method should delete by a specific field?

- a) `deleteByFieldName`
- b) `removeByFieldName`
- c) `eraseByFieldName`
- d) `exterminateByFieldName`

20. Which of the following denotes a derived delete query in Spring Data JPA?

- a) `deleteByFieldName`
- b) `findByFieldName`
- c) `queryByFieldName`
- d) `readByFieldName`

21. How can you perform pagination in Spring Data JPA?

- a) Using the `@Pageable` annotation
- b) Using the `Page` and `Pageable` interfaces

- c) Using the @Pagination annotation
- d) Using the Paginator class

22. In JPA, which strategy generates a primary key assigned by the database?

- a) GenerationType.AUTO
- b) GenerationType.SEQUENCE
- c) GenerationType.IDENTITY
- d) GenerationType.TABLE

23. Which annotation in JPA allows you to embed another object as part of your entity?

- a) @Embeddable
- b) @Embedded
- c) @Include
- d) @PartOf

24. How can you control transaction management in Spring Data JPA?

- a) By using the @Transactional annotation.
- b) By configuring the transaction properties in the application.properties file.
- c) By extending the JpaTransactionManager class.
- d) By adding the @EnableTransactionManagement annotation to the configuration class

25. How can you define custom database queries in Spring Data JPA?

- a) Using XML configuration files.
- b) Using SQL scripts executed during application startup.
- c) Using the @Query annotation and JPQL or native SQL queries.
- d) Using external SQL files loaded at runtime.

26. Choose the correct Query Method:

Consider a Student entity:

@Entity

@Table(name = "student")

public class Student {

 @Id

 @GeneratedValue(strategy = GenerationType.IDENTITY)

 @Column(name = "id")

 private int id;

 @Column(name = "first_name")

 private String firstName;

 @Transient // Field will not be saved in a database

 private String lastName;

 // getter and setter methods

}

Select the correct query method to find a student by firstName or LastName.

- a) `findByFirstNameOrLastName(String firstName, String lastName)`
- b) `findByFirstNameAndLastName(String firstName, String lastName)`
- c) `findByFirstNameOrLastName(Student student)`
- d) `findByFirstNameLastName(String firstName, String lastName)`