Test	Sum	mary
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No. of Sections: 2No. of Questions: 10Total Duration: 90 min

## **Section 1 - MCQ**

## **Section Summary**

No. of Questions: 9Duration: 15 min

#### **Additional Instructions:**

None

Q1. Which of the following is not a valid JPQL query?

SELECT e FROM Employee e

SELECT e.name FROM Employee e

SELECT name FROM Employee

SELECT COUNT(e) FROM Employee e

Q2. Which method is used to execute a named query in JPA?

executeQuery()

getResultList()

getSingleResult()

All of the above

Q3. Which of the following is true about JPQL?

It supports SQL-like syntax

It is only used for selecting data

It can be used with any database management system

It doesn't support joins

Q4. What is a One-to-Many relationship in JPA?

	A relationship between two entities where one entity can have multiple instances of the other entity
	A relationship between two entities where one entity can have only one instance of the other entity
	A relationship between three entities where one entity can have multiple instances of the other two entities
	A relationship between two entities where both entities can have multiple instances of each other
5.	How is a One-to-Many relationship typically mapped in the database?
	With a foreign key in the table of the owning entity that references the table of the other entity
	With a foreign key in the table of the other entity that references the table of the owning entity
	With a join table that has foreign keys to both entities' tables
	With a composite key that combines the primary key of both entities
б.	In a One-to-Many relationship, which entity is typically the owning entity?
	The entity with the @ManyToOne annotation
	The entity with the @OneToMany annotation
	Both entities are considered owning entities
	None of the entities are considered owning entities
7.	How do you define a bidirectional relationship in JPA?
	By using the @ManyToOne annotation in one entity and the @OneToMany annotation in the other entity.
	By using the @OneToOne annotation in both entities
	By using the @ManyToMany annotation in both entities.
	None of the above
8.	Which of the following is a valid JPQL function?
	LENGTH

	MAX
	SUM
	BOTH LENGTH AND SUM
Q9.	Which JPA annotation is used to create a one to one relationship between two entities?
	OneToOne
	oneToone
	One-To-One
	1-To-1

# **Section 2 - Coding**

#### **Section Summary**

- No. of Questions: 1
- Duration: 75 min

#### **Additional Instructions:**

None

### Q1. **GET Employee Details with Sorting and Pagination**

#### Overview:

To perform Sorting & Pagination operations of the employee's details in API.

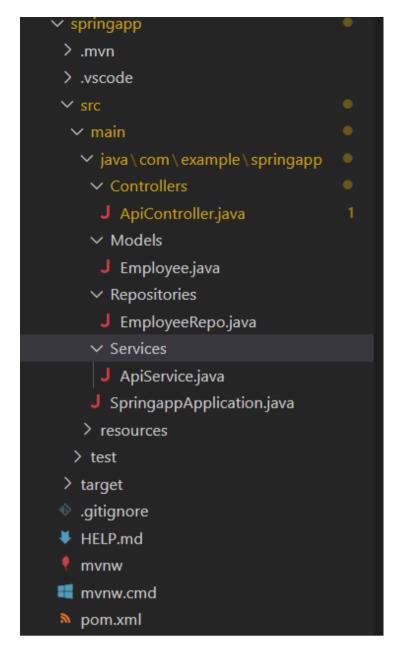
## **Functional Requirements:**

- Build an application for getting employee details.
- Have to create a folder named "Controllers" inside the springapp in src.
- Inside the Controllers create a java file named "ApiController.java".
- Next have to create the same inside the springapp named as "Models".
- Inside Models, you should create the java file named "Employee.java".
- And create Repositories folder and inside that create "EmployeeRepo.java"

## Create 6 variables

- 1. employeeld- int
- 2. firstName- string
- 3. lastName- string
- 4. email- string
- 5. mobile- long
- 6. address- string

as well as create getters and setters and constructors for the corresponding variables. Finally, create the "Service" folder, and inside that create the "ApiService.java" file. The project structure looks like this image



#### **Core Platform**

OpenJDK 11

#### API:

#### **Question 1(16 Marks):**

POST - "/" --> true/false

GET - "/{field} --> List of Employee object

#### **Question 2(16 Marks):**

GET - "/{offset}/{pagesize}" --> Page content

GET - "/{offset}/{pagesize}/{field}" --> Page content

#### Note:

Copy and paste it into the application.properties file

spring.jpa.hibernate.ddl-auto=update

spring. datas our ce.url = jdbc: mysql: // local host/bike? create Database If Not Exist = true

spring.datasource.username=root

spring.datasource.password=examly

spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

spring.jpa.show-sql= true

spring.jpa.database-platform = org.hibernate.dialect. My SQL8Dialect

#### **API endpoint:**

8080

## **Platform Guidelines:**

To run the command use **Terminal** in the platform.

# **Spring Boot:**

To start/run the application 'mvn spring-boot:run'

## **Answer Key & Solution**

	Section 1 - MCQ	
Q1	SELECT name FROM Employee	
	Solution	
	No Solution	
Q2	All of the above	
	Solution	
	No Solution	
Q3	It supports SQL-like syntax	
	Solution	
	No Solution	
Q4	A relationship between two entities where one entity can have multiple instances of the other entity	
	Solution	
	No Solution	
Q5	With a foreign key in the table of the owning entity that references the table of the other entity	
	Solution	
	No Solution	
Q6	The entity with the @ManyToOne annotation	
	Solution	
	No Solution	
Q7	By using the @ManyToOne annotation in one entity and the @OneToMany annotation in the other entity.	
	Solution	
	No Solution	
Q8	BOTH LENGTH AND SUM	
	Solution	
	No Solution	

Q9 OneToOne

Solution

No Solution

# **Section 2 - Coding**

Q1 Solution cannot be displayed