

Comenzado el	miércoles, 10 de noviembre de 2021, 17:06
Estado	Finalizado
Finalizado en	miércoles, 10 de noviembre de 2021, 17:18
Tiempo empleado	12 minutos 2 segundos
Puntos	8,00/8,00

Pregunta 1
Correcta
Puntúa 1,00 sobre 1,00

Queries with JPQL. Questionnaire

What methods does not pertain to the class Query of JPA?

Seleccione una:

- ☐ a. Object getSingleResult()
- ☐ b. Query setParameter(int, Object)
- ☐ c. List getResultList()
- ☒ d. List executeQuery()



null

La respuesta correcta es: List executeQuery()

Pregunta 2
Correcta
Puntúa 1,00 sobre 1,00

```
select a
from WorkOrder a
where a.date >= :desde
and a.date < :hasta
```

What is the right way of execute the above query?

Seleccione una:

- ☐ a. List res = query.setParameter(1, Dates.today()).setParameter(2, Dates.tomorrow()).getResultList();
- ☒ b. List res = query.setParameter("desde", Dates.today()).setParameter("hasta", Dates.tomorrow()).getResultList();
- ☐ c. List res = query.setParameter("desde", Dates.today()).setParameter("hasta", Dates.tomorrow()).getSingleList();
- ☐ d. List res = query.setParameter(1, Dates.today()).setParameter(2, Dates.tomorrow()).getSingleResult();



null

La respuesta correcta es: List res = query.setParameter("desde", Dates.today()).setParameter("hasta", Dates.tomorrow()).getResultList();

Pregunta 3
Correcta
Puntúa 1,00 sobre 1,00

```
String q = "select v from Vehicle v where v.plateNumber = ?1";
Vehicle v = em.createQuery( q )
               .setParameter(1, "2345BDX")
               .getSingleResult();
```

What statement is true?

Seleccione una:

- ☐ a. You cannot chain method invocations that way
- ☐ b. It will return a single Vehicle object which is consistent with the method invoked to execute the query
- ☒ c. It cannot be executed that way because there exist the possibility of having no vehicle with that plate number
- ☐ d. The execution is right because getSingleResult() simply returns null if the query produces no results



null

La respuesta correcta es: It cannot be executed that way because there exist the possibility of having no vehicle with that plate number

Pregunta 4
Correcta
Puntúa 1,00 sobre 1,00

What of the following queries is safe to execute with getSingleResult()?

Seleccione una:

- ☐ a. select v from Vehicle v where v.make = 'SEAT'
- ☐ b. select v from Vehicle v where v.plateNumber = '1234BDG'
- ☒ c. select count(v) from Vehicle v
- ☐ d. select v.client.name from Vehicle v where v.plateNumber = '1234BDG'



null

La respuesta correcta es: select count(v) from Vehicle v

Pregunta 5
Correcta
Puntúa 1,00 sobre 1,00

On what file are the JPQL queries specified when they are externalized?

Seleccione una:

- ☐ a. On a properties file on the classpath of the project
- ☐ b. On the persistence.xml file
- ☐ c. On the orm.xml
- ☒ d. On the orm.xml or with annotations, but with preference for the orm.xml



null

La respuesta correcta es: On the orm.xml or with annotations, but with preference for the orm.xml

Pregunta 6
Correcta
Puntúa 1,00 sobre 1,00

```
"select pm from PaymentMean pm where pm.client = ?1"
```

What statement is true regarding the above query?

Seleccione una:

- ☐ a. It cannot be executed because PaymentMean is abstract and the mapper cannot return instances of abstract classes
- ☐ b. It can only be executed if the mapping of the inheritance is SINGLE_TABLE
- ☒ c. It can be executed without specifying the inheritance mapping strategy



- ☒ c. It can be executed without regarding the inheritance mapping strategy
- ☐ d. It can only be executed if the mapping strategy is not TABLE_PER_CLASS

null

La respuesta correcta es: It can be executed without regarding the inheritance mapping strategy

Pregunta 7

Correcta

Puntúa 1,00 sobre 1,00

Which query is the most right to obtain the number of work orders of each registered vehicle

Seleccione una:

- ☐ a. select a.vehicle.id, count(a) from WorkOrder a group by a.vehicle.id
- ☐ b. select a.vehicle.id, count(a) from Vehicle v join v.workOrders a group by a.vehicle.id
- ☒ c. select a.vehicle.id, count(a) from Vehicle v left join v.workOrders a group by a.vehicle.id
- ☐ d. select v.id, count(v.workOrders) from Vehicle v group by v. id



null

La respuesta correcta es: select a.vehicle.id, count(a) from Vehicle v left join v.workOrders a group by a.vehicle.id

Pregunta 8

Correcta

Puntúa 1,00 sobre 1,00

```
select distinct i.mechanic
from Intervention i
where i.workOrder.vehicle.plateNumber = ?1

select distinct m
from Vehicle v
    join v.workOrders a
    join a.interventions i
    join i.mechanic m
where v.plateNumber = ?1

select distinct m
from Intervention i,
    Mechanic m,
    WorkOrder a,
    Vehicle v
where i.mechanic.id = m.id
    and i.workOrder.id = a.id
    and a.vehicle.id = v.id
    and v.plateNumber = ?1
```

What statement is FALSE?

Seleccione una:

- ☐ a. The three queries are equivalent: all of them return the mechanics who have intervened in work orders of a vehicle identified by its plate.
- ☐ b. The first form is the most compact since it uses implicit joins and, whenever possible, is the best way to express a query.
- ☐ c. The second way is valid, although there is a more compact way of doing it. Of course, it would be the best if in the navigations (join) is a multivalued path.
- ☐ d. The third form uses the "Theta Style". It is the least compact, the most cumbersome and the most prone to errors. It should only be used when there are no associations in the domain model that allow navigation between the entities involved. It is something like the "poor man's resource". It indicates that the programmer does not know the power of the JPQL language and I would feel very uncomfortable if I have to take charge of code written by him.
- ☒ e. The use of the "distinct" clause is unnecessary since there is no possibility that the same mechanic can appear several times in the result.



null

La respuesta correcta es: The use of the "distinct" clause is unnecessary since there is no possibility that the same mechanic can appear several times in the result.

Pregunta 9

Finalizado

Sin calificar

Write JPQL for these queries over the CarWorkshop domain model.

Customers with balance (available > 0) in their Vouchers.

select v.client from Voucher v where v.available > 0

select b.cliente from Bono b where b.disponible > 0

Pregunta 10

Finalizado

Sin calificar

The last invoice number generated.

select max(i.number) from Invoice i

select max(f.numero) from Factura f

Pregunta 11

Finalizado

Sin calificar

The number of work orders in which a mechanic worked between two dates.

select count(distinct i.workOrder) from Intervention i where i.mechanic.name = 'Sara' and i.workOrder.date >= '2021-02-14' and i.workOrder.date < '2021-04-14'

.....
and i.WorkOrder.fecha < '2012-01-30'

Pregunta **12**
Finalizado
Sin calificar

How many work orders does each mechanic have assigned? Project the mechanic's id and the quantity. [Note: once the work order is finished it is no longer assigned to the mechanic]

select w.mechanic.id, count(w) from Workorder w group by w.mechanic.id

.....
having a.mecanico.id is not null

Pregunta **13**
Finalizado
Sin calificar

All the work orders with total intervention time greater than 4 hours (one work order can have several interventions).

select w from WorkOrder w where w.id in (
select i.workOrder.id from Intervention i group by i.workOrder.id having sum(i.minutes) > 240)

.....
)

◀ Questionnaire to practice mapping @annotations (optional)

Ira...

Ejercicio arquitectura / Architecture exercise ▶