Apache Spark and parallel data processing

Pregunta 1:

1.		<pre>d = sc.parallelize(range(100)) d2 = range(100)</pre>	1 punto
	Please co	nsider the following code.	
	Where is	the execution of API calls on "rdd" taking place?	
	On th	ne local Driver machine	
	O In the	e ApacheSpark worker nodes	

Pregunta 2:

```
2.    1    rdd = sc.parallelize(range(100))
        rdd2 = range(100)
```

Please consider the following code.

Where is data in " rdd2 " stored physically?

- On the local Driver machine
- In main-memory of ApacheSpark worker nodes

Pregunta 3:

3. What is the parallel version of the following code?

1 len(range(999999999))	
sc.parallelize(range(999999999)).count()	
parallelize(range(999999999)).count()	
len(sc.parallelize(range(999999999)))	
size(sc.parallelize(range(999999999)))	
count(sc.parallelize(range(999999999)))	

Pregur	nta 4:
4.	Which storage solutions support seamless modification of schemas? (Select all that apply)
	✓ ObjectStorage
	☐ NoSQL
	✓ SQL/Relational Databases
Pregur	nta 5:
5.	Which storage solutions support dynamic scaling on storage? (Select all that apply)
	✓ ObjectStorage
	☐ NoSQL
	SQL/Relational Databases
Pregur	nta 6:
б.	Which storage solutions support normalization and integrity checks on data out of the box? (Select all that apply)
	ObjectStorage
	☐ NoSQL
	SQL/Relational Databases
Pregur	nta 7:
7. V	What is the advantage of using ApacheSparkSQL over RDDs? (select all that apply)
[ApacheSparkSQL bypasses the RDD interface which has been proven to be very complicated
	✓ SQL is simpler than RDD but has some performance drawbacks
	Catalyst and Tungsten are able to optimise the execution, so are more likely to execute more quickly than if you would had implemented something equivalent using the RDD API.

✓ The API is simpler and doesn't require specific functional programming skills