

TRABALHO DE BANCO DE DADOS 2

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product = 7157

1a.

```
>>> # 1.a) Given a product, list the 5 most helpful and highest rated reviews
... sqlDF1 = spark.sql("SELECT * FROM review WHERE product_id=" + product + " ORDER BY helpful DESC, rating DESC LIMIT 5")
>>> sqlDF1.show()
```

product_id	date	customer	rating	votes	helpful
7157	2001-3-4	A3NR6YPZDDTR7W	5	20	19
7157	2004-4-12	A1R6DKN9YQ2YU1	5	19	19
7157	1998-12-22	A3RH91MQNMBONF	5	13	13
7157	2000-6-5	A1DYQ36T1TRPML	5	9	8
7157	1999-5-19	ATVPDKIKX0DER	4	8	8

1b.

```
>>> # 1.b) Given a product, list the 5 most helpful and lowest rated reviews
... sqlDF2 = spark.sql("SELECT * FROM review WHERE product_id=" + product + " ORDER BY helpful DESC, rating ASC LIMIT 5")
>>> print(sqlDF2.show())
```

product_id	date	customer	rating	votes	helpful
7157	2001-3-4	A3NR6YPZDDTR7W	5	20	19
7157	2004-4-12	A1R6DKN9YQ2YU1	5	19	19
7157	1998-12-22	A3RH91MQNMBONF	5	13	13
7157	1999-5-19	ATVPDKIKX0DER	4	8	8
7157	2000-6-5	A1DYQ36T1TRPML	5	9	8

4.

```
>>> for group in group_list:
...     name = str(group._getitem_("group"))
...     sql_top_selling = spark.sql("SELECT product_id, salesrank FROM product WHERE group = '" + name + "' ORDER BY salesrank ASC LIMIT 10")
...     sql_top_selling.show()
```

product_id	salesrank
317372	-1
29585	-1
548526	0
297444	1
28339	2
113500	6
334784	7
486684	8
112817	12
385458	14

product_id	salesrank
257106	59
465900	1890
305664	2288
327405	4053
922	7812
272037	10732
11660	31296
421292	45241

7.

```
>>> for group in group_list:
...     name = str(group.getitem("group"))
...     sql_reviewers = spark.sql("SELECT cutomer, COUNT(cutomer) AS counter FROM review r LEFT JOIN product p on r.product_id = p.product_id WHERE p.group = '" + name
...     " GROUP BY cutomer ORDER BY counter DESC LIMIT 10")
...     sql_reviewers.show()
...
-----+-----+
|      cutomer|counter|
-----+-----+
|ATVPDKIKX0DER|    72581|
|A3UN6WXSRR02AG|   15814|
|A2NJO6YE954DBH|   17751|
|AU8552YC0050X|   12051|
|A3P1A6308L32C5|    7371|
|A28EEMWSFNZ1PN|    7201|
|A16CZR0L23N0IW|    6681|
|A3LZGLA88K0LA0|    6141|
|A2QR86L1MCJ53G|    6061|
|A152C8GYY25HAH|    5831|
-----+-----+

|      cutomer|counter|
-----+-----+
|A1S87SB31ETYZH|     21|
|AH4M07U4YC695|     21|
|ATVPDKIKX0DER|     21|
|A2V51N1FFRP728|     11|
|A1A2RJXP6T26PD|     11|
|A1ITRIM68VLZG3|     11|
|A28AL96IIDAEBU|     11|
|A1Z0S0XHPV00P0|     11|
|AH16IHWEA611J|     11|
|AXN0IMAR0CT3M|     11|
-----+-----+
```