3/5/2020 OneNote

Case retail

viernes, 1 de mayo de 2020 17:13

• Actualizamos los datos de Shell

Name >	Size >	Last Modified >	Owner >	Group >	Permission	Erasure
5						
access.log	37.8 MB	2020-05-02 20:24	amartinezv	bigdata	-nw-rr	
access.log.zip	3.0 MB	2020-05-02 20:24	amartinezv	bigdata	-nw-rr	

• Se creo la base de datos retail_db con sus tablas

```
ec2-user@ip-172-31-38-221 ~]$ mysql -u admin -p -h database-1.cyuc3
st-1.rds.amazonaws.com retail_db < bigdata/rdbms/retail_db-data.sql
nter password:
  c2-user@ip-172-31-38-221 ~]$ |
```

```
MySQL [retail_db]> show tables;
  Tables_in_retail_db |
  categories
  customers
  departments
 order_items
  orders
  products
 rows in set (0.00 sec)
MySQL [retail_db]>|
```

Importamos los datos via scoop desde la terminal

```
--username=admin --passworu=

1.dtmp --mysql-delinitvers

//./accumulo does not exist! Accumulo imports will fail.

HE to the not of your Accumulo installation.

sopop.Sapop: Running Sapop version: 1.4.7

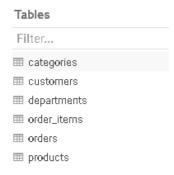
ins multiple SIF41 binnings.

[jar:file:/usr/lib/hadopylib/sif4j-logaj12-1.7.10.jarl/org/sIf4j/impl/StaticloggerBinder.clas

[jar:file:/usr/lib/hive/lib/logaj-sIf4j-impl-2.6.2.jarl/org/sIf4j/impl/StaticloggerBinder.clas

If4j.org/codes.html#multiple_bindings for an explanation.

s.of type [org.sIf4j.impl.log4jloggerFactory]
```



• Categoría más populares de productos:

```
1 SELECT c.category_name, count(order_item_quantity) as count
  FROM order_items oi
  inner join products p on oi.order_item_product_id = p.product_id
inner join categories c on c.category_id = p.product_category_id
5 group by c.category_name
6 order by count desc limit 10
   Query History Q
                          Saved Queries
                                                 Query Builder
                                                                    Results (10)
          c.category_name
                                                                            count
```

OneNote	

ail w	'	UIGALS .	24001
	2	Men\'s Footwear	22246
±	3	Women\'s Apparel	21035
	4	Indoor/Outdoor Games	19298
	5	Fishing	17825
	6	Water Sports	15540
	7	Camping & Hiking	18729
	8	Cardio Equipment	12487
	9	Shop By Sport	10984
	10	Electronics	3156

• Top 10 productos que generan ganancias

```
SELECT p.product_id, p.product_name, r.revenue
FROM products p inner join
(select oi.order_item_product_id, sum(cast(oi.order_item_subtotal as float)) as revenue
from order_item_order_id = o.order_id
where o.order_status <> 'CANCELED'
and o.order_status <> 'SUSPECTED_FRAUD'
group by order_item_product_id) r
on p.product_id = r.order_item_product_id
order by r.revenue desc limit 10
                                                                                   Saved Queries
                                                                                                                                                   Query Builder
```

	-	*		- /
111		p.product_id	p.product_name	r.revenue
.nl -	1	1004	Field & Stream Sportsman 16 Gun Fire Safe	6637668.282318115
	2	365	Perfect Fitness Perfect Rip Deck	4233794.3682899475
土	3	957	Diamondback Women\'s Serene Classic Comfort Bi	3946837.004547119
	4	191	Nike Men\'s Free 5.0+ Running Shoe	3507549.2067337036
	5	502	Nike Men\'s Dri-FIT Victory Golf Polo	3011600
	6	1073	Pelican Sunstream 100 Kayak	2967851.6815185547
	7	1014	O\'Brien Men\'s Neoprene Life Vest	2765548.814748042
	8	403	Nike Men\'s CJ Elite 2 TD Football Cleat	2763977.4868011475
	9	627	Under Armour Girls\'Toddler Spine Surge Runni	1214896.220287323
	10	565	adidas Youth Germany Black/Red Away Match Soc	63490

· Crear tabla y almacenar los logs

```
INFO : Starting task [Stage-0:DDL] in serial mode
 INFO : Completed executing command(queryId=hive_28288583172441_37c3c9f6-5328-4883-895e-f8d
 d644240f3); Time taken: 0.447 seconds
 INFO : OK
 ✓ Success.
```

Crear directorio para tabla externa con etl

```
1 CREATE EXTERNAL TABLE etl_access_logs (
           ip STRING,
           fecha STRING,
           method STRING,
           url STRING,
6
7
           http_version STRING,
           code1 STRING,
8
           code2 STRING,
           dash STRING,
10
           user_agent STRING)
```

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> ROW FORMAT DELIMITED FIELDS TERMINATED BY ',' LOCATION '/user/amartinezv/warehouse/access_logs_et1/';

```
FORWITON TOSELLUMBLETHESKINGLEHOOSELUCESS_TORS_CTT
INFO : Starting task [Stage-0:DDL] in serial mode
INFO : Completed executing command(queryId=hive_20200503172746_d45cf;
355e62674); Time taken: 0.07 seconds
INFO : OK
```

[hadoop@ip-172-31-86-244 ~]\$ hdfs dfs -chown -R amartinezv:hdfs /user/amartinezv/ [hadoop@ip-172-31-86-244 ~]\$

hace un minuto	¥	ADD JAR /usr/lib/hive/lib/hive-contrib.jar
hace unos segundos	•	<pre>INSERT OVERWRITE TABLE etl_access_logs SELECT * FROM tmp_access_logs</pre>

• Productos más visitados

1	1926	/department/apparel/category/cleats/product/Perfect%20Fitness%20Perfect%20Rip%
2	1793	/department/apparel/category/featured%20shops/product/adidas%20Kids%20RG%20
3	1780	/department/golf/category/women's %20 apparel/product/Nike %20 Men's %20 Dri-FIT %20 Apparel/Product/Nike %20 Men's %20 Dri-FIT %20 Apparel/Product/Nike %20 Men's %20 Apparel/Product/Nike %20 Apparel/Product/Nike %20 Apparel/Product/Nike %20 Apparel/Product/Nike Men's Men's Man's Man's Men's Me
4	1757	/department/apparel/category/men's%20footwear/product/Nike%20Men's%20CJ%20E
5	1104	/department/fan%20shop/category/water%20sports/product/Pelican%20Sunstream%
6	1084	/department/fan%20shop/category/indoor/outdoor%20games/product/O'Brien%20Mer
7	1059	/department/fan%20shop/category/camping%20&%20hiking/product/Diamondback%2
8	1028	/department/fan%20shop/category/fishing/product/Field%20&%20Stream%20Sportsm
9	1004	/department/footwear/category/cardio%20equipment/product/Nike%20Men's%20Free
10	939	/department/footwear/category/fitness%20accessories/product/Under%20Armour%20

· Preguntas de negocio

¿Son los productos más visitados en el sitio web los más vendidos? ¿Son los productos más visitados los que hacen parte de los de mayor rentabilidad?

Como se puede ver en los resultados obtenidos de los logs los productos más visitados corresponden los que generan más ganancia, por esto son también los que generan más rentabilidad para la empresa.