STUDENT-1

CREATE TABLE GameTable (marketplace STRING, customer_id STRING, review_id STRING, product_id STRING, product_parent STRING, product_title STRING, product_category STRING, star_rating INT, helpful_votes INT, total_votes INT, vine STRING, verified_purchase STRING, review_headline STRING, review_body STRING, review_date DATE)ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t' STORED AS TEXTFILE TBLPROPERTIES ("skip.header.line.count"="1");

```
hive> (REATE TABLE GameTable (marketplace STRING, customer id STRING, review id STRING, product id STRING, product parent STRING, product title STRING, product category STRING, star rating INT, helpful votes INT, total votes INT, vine RING, verified purchase STRING, review headline STRING, review body STRING, review date DATE)ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t' STORED AS TEXTFILE TBLPROPERTIES ("skip.header.line.count"="1");
OK
Time taken: 0.04 seconds
hive>
```

Load Data Local Inpath '/home/sbrhg/Downloads/amazon_reviews_us_Digital_Video_Games_v1_00 .tsv' Into Table GameTable;

```
hive> Load Data Local Inpath '/home/sbrhg/Downloads/amazon_reviews_us_Digital_Video_Games_v1_00 .tsv' Into Table GameTable;
Loading data to table default.gametable
OK
Time taken: 1.233 seconds
hive> ■
```

SELECT marketplace, product_category, COUNT(review_id) AS total_review_count, AVG(star_rating) AS average_star_rating FROM GameTable WHERE marketplace != 'US' GROUP BY marketplace, product_category;

```
hive> SELECT marketplace, product category, COUNT(review id) AS total_review_count, AVG(star_rating) AS average_star_rating FROM GameTable WHERE marketplace != 'US' GROUP BY marketplace, product_category;
Query ID = sbrhg_20231029025154_9cba4eab-43e1-49bd-8851-21583523da68
Total jobs = 1

Number of reduce tasks not specified. Estimated from input data size: 1

In order to change the average load for a reducer (in bytes):
set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
set hive.exec.reducers.max=cnumber>
In order to star a constant number of reducers:
set miye.exec.reducers.max=cnumber>
Job running in-process (local Hadoop)
2023-10-29 02:51:55, 674 Stage-1 map = 100%, reduce = 100%
Ended Job = job local1560714266 0012
MapReduce Jobs Launched:
Stage-Stage-1: HOFS Read: 1353361992 HOFS Write: 475509240 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
OK
Time taken: 1.743 seconds
hive>
```

STUDENT-2

CREATE TABLE GameTablePart (marketplace STRING, customer_id STRING, review_id STRING, product_id STRING, product_parent STRING, product_title STRING, product_category STRING, helpful_votes INT, total_votes INT, vine STRING,verified_purchase STRING, review_headline STRING, review_body STRING,review_date DATE) PARTITIONED BY (star_rating INT) ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t' STORED AS TEXTFILE;

```
hive> CREATE TABLE GameTablePart (marketplace STRING, customer_id STRING, review_id STRING, product_id STRING, product_parent STRING, product_title STRING, product_category STRING, helpful_votes INT, total_votes INT, vine STRING, verif_purchase STRING, review_headline STRING, review_body STRING, review_date DATE ) PARTITIONED BY (star_rating INT) ROW FORWAT DELIMITED FIELDS TERMINATED BY '\t' STORED AS TEXTFILE;

OK

Time taken: 0.267 seconds

hive>
```

Insert Into GameTablePart Partition (star_rating = 1) Select marketplace,customer_id,review_id,product_id,product_parent,product_title,product_category,hel pful_votes,total_votes,vine,verified_purchase,review_headline,review_body, review_date From GameTable Where star rating=1;

Insert Into GameTablePart Partition (star_rating = 2) Select marketplace,customer_id,review_id,product_id,product_parent,product_title,product_category,hel

pful_votes,total_votes,vine,verified_purchase,review_headline,review_body, review_date From GameTable Where star rating=2;

```
New Tracer Into GamerNahlePart Partition (star rating = 2) Select marketplace,customer_id,review_id,product_id,product_title,product_category,helpful_votes,total_votes,vine,verified_purchase,review_headline,review_body, if value (after from GamerNahle where star ratingos);

Onery ID = shring_02018209820912_e492372_57fa-4f9a-abbb-5526a3d3bd90
Total jobs = 3
Launching Job I out of 3
Number of reduce tasks and specified. Estimated from input data size: 1
In order to Inneght the werape load for a reducer (in bytes):
In order to Inneght the werape load for a reducer (in bytes):
In order to Instit the maximum number of reducers:
set hive.exec.reducers.maxe.rember:
In order to the reducers:
set tagercate.gob.reduces-number:
In order to set a constant number of reducers:
set tagercate.gob.reduces-number:
In order to set a constant number of reducers:
set mayercate.gob.reduces-number:
In order to job.reduces-number:
Set tagercate.gob.reduces-number:
Stage-1 is reduced to constitution resolver.
Stage-3 is filtered out by condition resolver.
Stage-3 is filtered ou
```

SELECT star_rating, SUM(helpful_votes) AS total_helpful_votes, SUM(total_votes) AS total_total_votes FROM GameTablePart GROUP BY star_rating ORDER BY total_total_votes DESC;

```
hive> SELECT star rating, SUM(helpful votes) AS total helpful votes, SUM(total_votes) AS total_total_votes FROM GameTablePart GROUP BY star_rating ORDER BY total_total_votes DESC;
Query ID = sbring_202310279038033_73815ce4-bb6d-44da-b921-e87c93343803

Launching Job 1 out of 2

Number of reduce tasks not specified. Estimated from input data size: 1
In order to change the average load for a reducer (in bytes):
set hive.exec.reducers.bytes.per.reducer=<mnumber>
In order to Limit the maximum number of reducers:
set hive.exec.reducers.max=<mnumber>
In order to set a constant number of reducers:
set hive.exec.reducers.max=<mnumber>
Job running in-process (local Hadoop)
2023-10-29 03:00:135,418 Stages I map = 100%, reduce== 100%
2023-10-29 03:00:135,418 Stages I map = 100%, reduce = 100%
In order to change the average load for a reducer (in bytes):
set hive.exec.reducers.bytes.per.reducer=<mnumber>
In order to change the average load for a reducer (in bytes):
set hive.exec.reducers.bytes.per.reducer=<mnumber>
In order to change the average load for a reducer (in bytes):
set hive.exec.reducers.max=<mnumber of reducers:
set inve.exec.reducers.max=<mnumber)
Job running in-process (local Hadoop)
2023-10-29 03:00:136,793 Stage-2 map = 100%, reduce = 100%
2023-10-29 03:00:136,793 Stage-2 map = 100%, reduce = 100%
2023-10-29 03:00:136,793 Stage-2 map = 100%, reduce = 100%
2023-10-29 03:00:136,793 Stage-2 map = 100%, reduce = 100%
2023-10-29 03:00:136,793 Stage-2 map = 100%, reduce = 100%
2023-10-29 03:00:136,793 Stage-2 map = 100%, reduce = 100%
2023-10-29 03:00:136,793 Stage-2 map = 100%
2023
```

STUDENT-3

CREATE TABLE GameTableBuck (marketplace STRING, customer_id STRING, review_id STRING, product_id STRING, product_parent STRING, product_title STRING, product_category STRING, star_rating INT, helpful_votes INT, total_votes INT, vine STRING, verified_purchase STRING, review_headline STRING, review_body STRING, review_date DATE) CLUSTERED BY (review_date) INTO 3 BUCKETS ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t' STORED AS TEXTFILE;

```
hive> CREATE TABLE GameTableBuck ( marketplace STRING, customer_id STRING, review_id STRING, product_id STRING, product_parent_STRING, product_title STRING, product_category STRING, star_rating_INT, helpful_votes_INT, total_votes_INT, ne_STRING, verified_purchase STRING, review_headline STRING, review_body STRING, review_date DATE) CLUSTERED BY (review_date) INTO 3 BUCKETS ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t' STORED AS TEXTFILE;
OK

Time taken: 0.856 seconds
hive>
```

INSERT INTO GameTableBuck SELECT * FROM GameTable;

```
hive> INSERT INTO GameTableBuck SELECT * FROM GameTable;
Query ID = sbrhg 20231029030324 cdfe908f-cb69-4168-b834-d1c0a7477318
Total jobs = 2
Launching Job 1 out of 2
Number of reduce tasks determined at compile time: 3
In order to change the average load for a reducer (in bytes):
 set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2023-10-29 03:03:26,741 Stage-1 map = 0%, reduce = 0%
2023-10-29 03:03:28,749 Stage-1 map = 100%, reduce = 0%
2023-10-29 03:03:29,765 Stage-1 map = 100%, reduce = 67%
2023-10-29 03:03:30,767 Stage-1 map = 100%, reduce = 100%
Ended Job = job local473275780 0017
Loading data to table default.gametablebuck
Launching Job 2 out of 2
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2023-10-29 03:03:32,438 Stage-3 map = 100%, reduce = 100%
Ended Job = job local1485004021 0018
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 3657742200 HDFS Write: 1170445367 SUCCESS
Stage-Stage-3: HDFS Read: 1828871100 HDFS Write: 658400640 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
0K
Time taken: 7.663 seconds
hive>
```

SELECT MIN(review_date), MAX(review_date) FROM GameTableBuck WHERE INPUT__FILE__NAME LIKE '%000000_0';

```
hive> SELECT MIN(review date), MAX(review date) FROM GameTableBuck WHERE INPUT FILE NAME LIKE '%000000 0';
Query ID = sbrhg_20231029030441_28aea450-94d9-428d-81ea-b50cb07aef6b
Total jobs = 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes): set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
 set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2023-10-29 03:04:43,187 Stage-1 map = 100%, reduce = 100%
Ended Job = job_local429758708_0019
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 1975180152 HDFS Write: 658400640 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
oĸ
2008-12-24
                  2015-08-30
Time taken: 1.867 seconds, Fetched: 1 row(s)
hive>
```

SELECT MIN(review_date), MAX(review_date) FROM GameTableBuck WHERE INPUT__FILE__NAME LIKE '%000001_0';

```
hive> SELECT MIN(review_date), MAX(review_date) FROM GameTableBuck WHERE INPUT__FILE__NAME LIKE '%000001_0';
Query ID = sbrhg_20231029030525_99f74291-ddda-49e3-90ae-17109df1a693
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
  set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
   set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2023-10-29 03:05:27,145 Stage-1 map = 100%, reduce = 100%
Ended Job = job_local247412421_0020
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 2121488688 HDFS Write: 658400640 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
2006-08-08
                    2015-08-31
Time taken: 1.593 seconds, Fetched: 1 row(s)
hive>
```

SELECT MIN(review_date), MAX(review_date) FROM GameTableBuck WHERE INPUT__FILE__NAME LIKE '%000002 0';

```
hive> SELECT MIN(review date), MAX(review date) FROM GameTableBuck WHERE INPUT FILE NAME LIKE '%000002 0';
Query ID = sbrhg_20231029030613_dd8ed2ab-1f69-45de-bad9-cbff1e9dcd25
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 1
In order to change the average load for a reducer (in bytes):
set hive.exec.reducers.bytes.per.reducer=<number>
In order to limit the maximum number of reducers:
  set hive.exec.reducers.max=<number>
In order to set a constant number of reducers:
  set mapreduce.job.reduces=<number>
Job running in-process (local Hadoop)
2023-10-29 03:06:15,144 Stage-1 map = 100%, reduce = 100%
Ended Job = job local1583026834 0021
MapReduce Jobs Launched:
Stage-Stage-1: HDFS Read: 2267797224 HDFS Write: 658400640 SUCCESS
Total MapReduce CPU Time Spent: 0 msec
2009-02-04
                  2015-08-29
Time taken: 1.709 seconds, Fetched: 1 row(s)
```

SELECT product_id, AVG(helpful_votes) AS avg_helpful_votes, AVG(total_votes) AS avg_total_votes FROM GameTable GROUP BY product_id HAVING AVG(helpful_votes) > 1;