

```
hive> -- High-Rated Agent Assignment by Category
> SELECT Category, COUNT(*) AS High_Rated_Agent_Assignments
> FROM delivery_data
> WHERE Agent_Rating > 4.5
> GROUP BY Category
> ORDER BY High_Rated_Agent_Assignments DESC;
Query ID = root_20241102170320_8d3200dd-6f2d-43ac-9b22-5e0015b247a4
Total jobs = 1
Launching Job 1 out of 1
```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	SUCCEEDED	1	1	0	0	0	0
Reducer 2	SUCCEEDED	1	1	0	0	0	0
Reducer 3	SUCCEEDED	1	1	0	0	0	0

VERTICES: 03/03 [=====>>] 100% ELAPSED TIME: 8.42 s

```
OK
Books      2105
Electronics 2082
Outdoors   2065
Skincare   2058
Jewelry    2055
Toys        2050
Snacks     2046
Pet Supplies 2008
Sports     2002
Apparel    2000
Shoes      1986
Grocery    1986
Clothing   1983
Kitchen    1966
Cosmetics  1965
Home       1963
Time taken: 9.81 seconds, Fetched: 16 row(s)
```

```
hive> -- Average Time Difference Between Order and Pickup by Category and Area
> SELECT Category, Area,
>        AVG(UNIX_TIMESTAMP(Pickup_Time, 'dd-MM-yyyy HH:mm') - UNIX_TIMESTAMP(Order_Time, 'dd-MM-yyyy HH:mm')) / 60 AS Avg_Order_Pickup_Time
> FROM delivery_data
> GROUP BY Category, Area;
Query ID = root_20241102170628_3b7296f6-edc3-4aca-9567-59edc2464fe9
Total jobs = 1
Launching Job 1 out of 1
```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	SUCCEEDED	1	1	0	0	0	0
Reducer 2	SUCCEEDED	1	1	0	0	0	0

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 8.72 s

Apparel	Metropolitian	-19.645650048875854
Apparel	Other	-36.693548387096776
Apparel	Semi-Urban	8.846153846153845
Apparel	Urban	-14.01830282861897
Books	Metropolitian	-22.689903846153847
Books	Other	-9.652777777777777
Books	Semi-Urban	10.714285714285715
Books	Urban	-18.31306990881459
Category	Area	NULL
Clothing	Metropolitian	-10.845035105315949
Clothing	Other	-32.35294117647059
Clothing	Semi-Urban	12.222222222222223
Clothing	Urban	-28.883248730964468
Cosmetics	Metropolitian	-26.832329317269075
Cosmetics	Other	-31.25
Cosmetics	Semi-Urban	9.444444444444445
Cosmetics	Urban	-30.88186356073211
Electronics	Metropolitian	-22.59433962264151
Electronics	Other	-92.71428571428572
Electronics	Semi-Urban	10.909090909090908
Electronics	Urban	-12.562305295950155
Grocery	Metropolitian	-8.448616600790514
Grocery	Other	-47.86666666666667
Grocery	Semi-Urban	10.625
Grocery	Urban	-31.97934595524957
Home	Metropolitian	-11.767955801104971
Home	Other	-10.37313432835821
Home	Semi-Urban	6.666666666666667
Home	Urban	-24.935064935064936
Jewelry	Metropolitian	-13.153697438376026
Jewelry	Other	-66.25
Jewelry	Semi-Urban	10.0
Jewelry	Urban	-19.207221350078495
Kitchen	Metropolitian	-19.871541501976285
Kitchen	Other	-7.7439024390243905
Kitchen	Semi-Urban	12.0
Kitchen	Urban	-26.442831215970962
Outdoors	Metropolitian	-9.721135029354206
Outdoors	Other	-37.88135593220339
Outdoors	Semi-Urban	10.0

```

Outdoors      Metropolitan  -9.721135029354206
Outdoors      Other        -37.88135593220339
Outdoors      Semi-Urban    10.0
Outdoors      Urban        -19.502369668246445
Pet Supplies  Metropolitan  -5.8618127786032685
Pet Supplies  Other        -31.197183098591548
Pet Supplies  Semi-Urban    12.0
Pet Supplies  Urban        -9.592529711375212
Shoes         Metropolitan  -16.472483886960834
Shoes         Other        10.833333333333334
Shoes         Semi-Urban    12.5
Shoes         Urban        -22.071917808219176
Skincare      Metropolitan  -20.97358121330724
Skincare      Other        -46.578947368421055
Skincare      Semi-Urban    10.357142857142858
Skincare      Urban        -12.824367088607595
Snacks        Metropolitan  -27.266275085658343
Snacks        Other        -28.01282051282051
Snacks        Semi-Urban    6.8181818181818175
Snacks        Urban        -12.519685039370078
Sports        Metropolitan  -18.800585080448563
Sports        Other        -27.5
Sports        Semi-Urban    10.454545454545455
Sports        Urban        -5.401396160558464
Toys          Metropolitan  -2.444605009633911
Toys          Other        -77.80487804878048
Toys          Semi-Urban    9.23076923076923
Toys          Urban        -25.79734219269103
Time taken: 10.805 seconds, Fetched: 65 row(s)

```

```

hive> -- Average Delivery Time by Weather and Traffic Conditions
> SELECT Weather, Traffic, AVG(Delivery_Time) AS Avg_Delivery_Time
> FROM delivery_data
> GROUP BY Weather, Traffic;
Query ID = root_20241102171113_7542c58e-13b5-4201-8bd4-1fab9bf56c1f
Total jobs = 1
Launching Job 1 out of 1

```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

	VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1		SUCCEEDED	1	1	0	0	0	0
Reducer 2		SUCCEEDED	1	1	0	0	0	0

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 7.44 s

Weather	Traffic	NULL
cloudy	High	138.7350069735007
cloudy	Jam	174.58447287163654
cloudy	Low	106.70217821782178
cloudy	Medium	136.68071950534008
fog	High	134.93527080581242
fog	Jam	174.1627906976744
fog	Low	104.9047619047619
fog	Medium	132.19466073414907
sandstorms	High	131.85693215339234
sandstorms	Jam	142.30267702936098
sandstorms	Low	96.78809523809524
sandstorms	Medium	132.8625072212594
stormy	High	131.9172510518934
stormy	Jam	142.29083665338646
stormy	Low	98.54142802596411
stormy	Medium	131.79584969153112
sunny	High	110.18296089385476
sunny	Jam	108.67562724014337
sunny	Low	102.56643065389422
sunny	Medium	96.02082128397917
windy	High	128.72727272727272
windy	Jam	142.9317585301837
windy	Low	98.66859983429991
windy	Medium	130.64933628318585

Time taken: 8.983 seconds, Fetched: 26 row(s)

```
hive> --Delivery Times for Each Country by Vehicle Type
> SELECT Country, Vehicle, AVG(Delivery_Time) AS Avg_Delivery_Time
> FROM delivery_data
> GROUP BY Country, Vehicle;
Query ID = root_20241102171227_d78a1bdc-2e53-41a8-82fc-d65176dab664
Total jobs = 1
Launching Job 1 out of 1
```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

```
-----
VERTICES      STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 .....  SUCCEEDED    1         1         0         0         0         0
Reducer 2 ..... SUCCEEDED    1         1         0         0         0         0
-----
VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 4.80 s
-----
```

```
OK
China  bicycle      107.5
China  motorcycle    131.63851699279093
China  scooter      115.99458646616542
China  van    117.32968369829683
Country Vehicle NULL
Germany bicycle      111.0
Germany motorcycle   130.09240596167496
Germany scooter     116.94708994708995
Germany van    114.73936750272628
Other  bicycle      150.0
Other  motorcycle   132.4259151656014
Other  scooter     116.79816513761467
Other  van    118.20335429769392
USA    bicycle      146.0
USA    motorcycle   131.10066864784548
USA    scooter     116.24338063969498
USA    van    115.68104906937394
USA    bicycle      105.0
USA    motorcycle   128.91300527240773
USA    scooter     114.24471299093656
```

```
hive> -- Top Performing Agents (Rating > 4.5) by Country
> SELECT Country, Agent_Rating, COUNT(*) AS High_Performance_Count
> FROM delivery_data
> WHERE Agent_Rating > 4.5
> GROUP BY Country, Agent_Rating
> ORDER BY High_Performance_Count DESC;
Query ID = root_20241102171337_0c8fbb01-72e4-4760-bb89-adffb7d23ca1
Total jobs = 1
Launching Job 1 out of 1
```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

```
-----
VERTICES      STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 .....  SUCCEEDED    1         1         0         0         0         0
Reducer 2 ..... SUCCEEDED    1         1         0         0         0         0
Reducer 3 ..... SUCCEEDED    1         1         0         0         0         0
-----
VERTICES: 03/03 [=====>>] 100% ELAPSED TIME: 8.55 s
-----
```

```
OK
USA      4.8      2342
USA      4.7      2315
USA      4.9      2216
USA      4.6      2190
Germany  4.7      1973
Germany  4.9      1924
Germany  4.8      1899
Germany  4.6      1881
China    4.9      1628
China    4.7      1615
China    4.8      1612
China    4.6      1605
USA      5.0      1259
Germany  5.0      1105
Other    4.6      962
Other    4.8      953
Other    4.9      949
Other    4.7      943
China    5.0      902
Other    5.0      541
USA      4.8      342
USA      4.9      324
USA      4.6      302
USA      4.7      296
USA      5.0      189
USA      6.0      19
Germany  6.0      15
China    6.0      11
Other    6.0      7
USA      6.0      1
Time taken: 9.397 seconds, Fetched: 30 row(s)
```

```
hive> -- Most Frequent Weather Condition in Delayed Deliveries (Over 150 Minutes)
> SELECT Weather, COUNT(*) AS Delay_Count
> FROM delivery_data
> WHERE Delivery_Time > 150
> GROUP BY Weather
> ORDER BY Delay_Count DESC;
```

Query ID = root_20241102171617_851a6f2d-61e1-4936-9947-b86ee5861256

Total jobs = 1

Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

	VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1		SUCCEEDED	1	1	0	0	0	0
Reducer 2		SUCCEEDED	1	1	0	0	0	0
Reducer 3		SUCCEEDED	1	1	0	0	0	0

VERTICES: 03/03 [=====>>] 100% ELAPSED TIME: 5.13 s

OK

```
fog      3045
cloudy   3015
windy    1780
stormy   1766
sandstorms 1762
sunny    811
0        16
```

Time taken: 6.443 seconds, Fetched: 7 row(s)

```
hive> -- Count of Deliveries by Agent Age Range
> SELECT CASE
>     WHEN Agent_Age BETWEEN 20 AND 25 THEN '20-25'
>     WHEN Agent_Age BETWEEN 26 AND 30 THEN '26-30'
>     WHEN Agent_Age BETWEEN 31 AND 35 THEN '31-35'
>     ELSE '36 and above'
> END AS Age_Range,
> COUNT(*) AS Delivery_Count
> FROM delivery_data
> GROUP BY CASE
>     WHEN Agent_Age BETWEEN 20 AND 25 THEN '20-25'
>     WHEN Agent_Age BETWEEN 26 AND 30 THEN '26-30'
>     WHEN Agent_Age BETWEEN 31 AND 35 THEN '31-35'
>     ELSE '36 and above'
> END;
```

Query ID = root_20241102171737_cf2e89ca-1134-47f9-a23c-c8c178dcc960

Total jobs = 1

Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

	VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1		SUCCEEDED	1	1	0	0	0	0
Reducer 2		SUCCEEDED	1	1	0	0	0	0

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 6.68 s

OK

```
20-25    12956
26-30    10905
31-35    10937
36 and above 8942
```

Time taken: 7.751 seconds, Fetched: 4 row(s)

```
hive> -- Average Delivery Time by Country and Category
> SELECT Country, Category, AVG(Delivery_Time) AS Avg_Delivery_Time
> FROM delivery_data
> GROUP BY Country, Category;
Query ID = root_20241102171851_c19ec23c-d012-4903-bdda-707c4241f79d
Total jobs = 1
Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

-----
VERTICES      STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 .....  SUCCEEDED      1          1          0          0          0          0
Reducer 2 ..... SUCCEEDED      1          1          0          0          0          0
-----
VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 3.90 s
-----
OK
China  Apparel 135.83064516129033
China  Books  130.05102040816325
China  Clothing 129.66836734693877
China  Cosmetics 134.59030100334448
China  Electronics 130.65749235474007
China  Grocery 26.434571890145396
China  Home 131.07744107744108
China  Jewelry 133.7076923076923
China  Kitchen 130.47734627831716
China  Outdoors 127.96153846153847
China  Pet Supplies 133.99525316455697
```


China	Pet Supplies	133.99525316455697
China	Shoes	131.2414383561644
China	Skincare	132.35623003194888
China	Snacks	133.46955128205127
China	Sports	131.5780998389694
China	Toys	130.17184942716858
Country	Category	NULL
Germany	Apparel	133.2593123209169
Germany	Books	129.0921052631579
Germany	Clothing	130.54131054131054
Germany	Cosmetics	131.7621776504298
Germany	Electronics	129.5095541401274
Germany	Grocery	26.6644908616188
Germany	Home	128.01608579088472
Germany	Jewelry	130.93586387434556
Germany	Kitchen	131.20689655172413
Germany	Outdoors	134.28477690288713
Germany	Pet Supplies	131.41496598639455
Germany	Shoes	130.3994673768309
Germany	Skincare	131.69749009247028
Germany	Snacks	131.85089974293058
Germany	Sports	133.1367292225201
Germany	Toys	131.71085858585857
Other	Apparel	134.71311475409837
Other	Books	132.38845144356955
Other	Clothing	129.29799426934096
Other	Cosmetics	136.1323155216285
Other	Electronics	135.63002680965147
Other	Grocery	26.578787878787878
Other	Home	134.7020725388601
Other	Jewelry	130.8673469387755
Other	Kitchen	133.97506925207756
Other	Outdoors	130.2680965147453
Other	Pet Supplies	129.37321937321937
Other	Shoes	129.0331491712707
Other	Skincare	133.10109289617486
Other	Snacks	131.1141304347826
Other	Sports	130.76115485564304
Other	Toys	127.53561253561253
USA	Apparel	127.82327586206897

USA	Clothing	131.4994487320838
USA	Cosmetics	131.87572590011615
USA	Electronics	129.6497175141243
USA	Grocery	26.58274231678487
USA	Home	132.3812351543943
USA	Jewelry	128.48714953271028
USA	Kitchen	133.9908779931585
USA	Outdoors	130.7897862232779
USA	Pet Supplies	130.22595596755505
USA	Shoes	133.21759259259258
USA	Skincare	131.63366336633663
USA	Snacks	131.8287037037037
USA	Sports	132.83815028901734
USA	Toys	127.9652466367713
USA	Apparel	129.91228070175438
USA	Books	132.10526315789474
USA	Clothing	129.91735537190084
USA	Cosmetics	128.18897637795277
USA	Electronics	133.6184210526316
USA	Grocery	25.923076923076923
USA	Home	126.45299145299145
USA	Jewelry	129.57142857142858
USA	Kitchen	131.2396694214876
USA	Outdoors	131.70833333333334
USA	Pet Supplies	129.40366972477065
USA	Shoes	126.33333333333333
USA	Skincare	132.10526315789474
USA	Snacks	127.6470588235294
USA	Sports	130.4245283018868
USA	Toys	126.5925925925926

```

hive> -- Count of Orders Placed per Day
> SELECT Order_Date, COUNT(*) AS Orders_Per_Day
> FROM delivery_data
> GROUP BY Order_Date
> ORDER BY Order_Date;
Query ID = root_20241102172007_7f061c77-1310-4989-b5bf-4077713b132f
Total jobs = 1
Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

-----
      VERTICES      STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 .....  SUCCEEDED      1          1          0          0          0          0
Reducer 2 .....  SUCCEEDED      1          1          0          0          0          0
Reducer 3 .....  SUCCEEDED      1          1          0          0          0          0
-----
VERTICES: 03/03  [=====>>] 100%  ELAPSED TIME: 4.85 s
-----

```

2022-02-11	940
2022-02-12	837
2022-02-13	924
2022-02-14	826
2022-02-15	904
2022-02-16	827
2022-02-17	905
2022-02-18	819
2022-03-01	1076
2022-03-02	969
2022-03-03	1119
2022-03-04	944
2022-03-05	1112
2022-03-06	949
2022-03-07	1093
2022-03-08	919
2022-03-09	1117
2022-03-10	947
2022-03-11	1094
2022-03-12	931
2022-03-13	1123
2022-03-14	931
2022-03-15	1141
2022-03-16	955
2022-03-17	1085
2022-03-18	932
2022-03-19	1103
2022-03-20	945
2022-03-21	1107
2022-03-23	922
2022-03-24	1112
2022-03-25	931
2022-03-26	1119
2022-03-27	932
2022-03-28	1092
2022-03-29	938
2022-03-30	1091
2022-03-31	929
2022-04-01	1092

```
hive> -- Most Common Vehicle Type Used in Each Weather Condition
> SELECT Weather, Vehicle, COUNT(*) AS Vehicle_Count
> FROM delivery_data
> GROUP BY Weather, Vehicle
> ORDER BY Weather, Vehicle_Count DESC;
Query ID = root_20241102172118_4e482218-b1d7-46cf-b476-c08baa0d5390
Total jobs = 1
Launching Job 1 out of 1
```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

```
-----
VERTICES    STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
-----
Map 1 ..... SUCCEEDED    1         1         0         0         0         0
Reducer 2 ..... SUCCEEDED    1         1         0         0         0         0
Reducer 3 ..... SUCCEEDED    1         1         0         0         0         0
-----
VERTICES: 03/03 [=====>>] 100% ELAPSED TIME: 4.92 s
-----
```

OK

```
Weather Vehicle 1
cloudy motorcycle 4229
cloudy scooter 2472
cloudy van 587
fog motorcycle 4329
fog scooter 2483
fog van 628
sandstorms motorcycle 4246
sandstorms scooter 2433
sandstorms van 566
stormy motorcycle 4307
stormy scooter 2473
stormy van 594
sunny motorcycle 4139
sunny scooter 2367
sunny van 572
windy motorcycle 4269
windy scooter 2379
windy van 575
Time taken: 5.597 seconds, Fetched: 23 row(s)
```

```
hive> -- Traffic Level with Highest Agent Ratings
> SELECT Traffic, AVG(Agent_Rating) AS Avg_Agent_Rating
> FROM delivery_data
> GROUP BY Traffic
> ORDER BY Avg_Agent_Rating DESC;
Query ID = root_20241102172232_64ac193f-8f88-436a-b574-ed63fd77d91c
Total jobs = 1
Launching Job 1 out of 1
```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

	VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1		SUCCEEDED	1	1	0	0	0	0
Reducer 2		SUCCEEDED	1	1	0	0	0	0
Reducer 3		SUCCEEDED	1	1	0	0	0	0

VERTICES: 03/03 [=====>>] 100% ELAPSED TIME: 5.31 s

OK
Medium 4.654779827478105
High 4.652467408659738
Low 4.6404293645929595
Jam 4.590958103325849
NaN 3.912087912087912

Traffic NULL

Time taken: 5.914 seconds, Fetched: 6 row(s)

```
hive> -- Top 3 Product Categories with Highest Delivery Time in Each Country
> SELECT Country, Category, AVG(Delivery_Time) AS Avg_Delivery_Time
> FROM delivery_data
> GROUP BY Country, Category
> ORDER BY Country, Avg_Delivery_Time DESC
> LIMIT 3;
```

Query ID = root_20241102172337_f33e35a5-c0ac-44ca-9104-17c79490beff
Total jobs = 1
Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

	VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1		SUCCEEDED	1	1	0	0	0	0
Reducer 2		SUCCEEDED	1	1	0	0	0	0
Reducer 3		SUCCEEDED	1	1	0	0	0	0

VERTICES: 03/03 [=====>>] 100% ELAPSED TIME: 5.26 s

OK
China Apparel 135.83064516129033
China Cosmetics 134.59030100334448
China Pet Supplies 133.99525316455697

Time taken: 5.903 seconds, Fetched: 3 row(s)

```
hive> -- Top 5 Areas with Highest Average Delivery Time
> SELECT Area, AVG(Delivery_Time) AS Avg_Delivery_Time
> FROM delivery_data
> GROUP BY Area
> ORDER BY Avg_Delivery_Time DESC
> LIMIT 5;
```

Query ID = root_20241102172441_8e06211c-2a08-45e1-8b7a-0230298457b6

Total jobs = 1

Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

	VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1		SUCCEEDED	1	1	0	0	0	0
Reducer 2		SUCCEEDED	1	1	0	0	0	0
Reducer 3		SUCCEEDED	1	1	0	0	0	0

VERTICES: 03/03 [=====>>] 100% ELAPSED TIME: 5.53 s

OK

Semi-Urban 238.55263157894737

Metropolitan 129.70245886598568

Urban 109.4345195364578

Other 104.46485061511423

```
hive> -- Agent Age Group with Fastest Delivery Time
```

```
> SELECT CASE
>     WHEN Agent_Age BETWEEN 20 AND 25 THEN '20-25'
>     WHEN Agent_Age BETWEEN 26 AND 30 THEN '26-30'
>     WHEN Agent_Age BETWEEN 31 AND 35 THEN '31-35'
>     ELSE '36 and above'
>     END AS Age_Group,
>     AVG(Delivery_Time) AS Avg_Delivery_Time
> FROM delivery_data
> GROUP BY CASE
>     WHEN Agent_Age BETWEEN 20 AND 25 THEN '20-25'
>     WHEN Agent_Age BETWEEN 26 AND 30 THEN '26-30'
>     WHEN Agent_Age BETWEEN 31 AND 35 THEN '31-35'
>     ELSE '36 and above'
>     END
> ORDER BY Avg_Delivery_Time;
```

Query ID = root_20241102172553_19512a28-f5fa-49b6-ae8-6410767fb2a7

Total jobs = 1

Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

	VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1		SUCCEEDED	1	1	0	0	0	0
Reducer 2		SUCCEEDED	1	1	0	0	0	0
Reducer 3		SUCCEEDED	1	1	0	0	0	0

VERTICES: 03/03 [=====>>] 100% ELAPSED TIME: 3.92 s

OK

20-25 109.18570546464959

26-30 115.20641907381935

36 and above 139.75125824851807

31-35 141.0620828380726

Time taken: 4.5 seconds, Fetched: 4 row(s)


```
sandbox login: root
root@sandbox.hortonworks.com's password:
Last login: Sat Nov  2 16:09:51 2024 from 172.17.0.2
[root@sandbox ~]# hdfs dfs -mkdir /project
[root@sandbox ~]# hdfs dfs -get /project/PP_amazon_data.csv
[root@sandbox ~]# hive
```

```
Logging initialized using configuration in file:/etc/hive/2.5.0.0-1245/0/hive-log4j
.properties
hive> CREATE DATABASE amazon;
OK
Time taken: 3.261 seconds
hive> USE amazon;
OK
Time taken: 0.368 seconds
```

```
hive> CREATE TABLE delivery_data (
>   Agent_Age INT,
>   Agent_Rating FLOAT,
>   Drop_Latitude DOUBLE,
>   Drop_Longitude DOUBLE,
>   Order_Date STRING,
>   Order_Time STRING,
>   Pickup_Time STRING,
>   Weather STRING,
>   Traffic STRING,
>   Vehicle STRING,
>   Area STRING,
>   Delivery_Time STRING,
>   Category STRING,
>   Country STRING
> )
> ROW FORMAT DELIMITED
> FIELDS TERMINATED BY ','
> STORED AS TEXTFILE;
```

```
OK
Time taken: 0.892 seconds
hive> LOAD DATA INPATH '/AmazonProject/PP_amazon_data.csv' INTO TABLE delivery_data;
Loading data to table amazon.delivery_data
Table amazon.delivery_data stats: [numFiles=1, numRows=0, totalSize=5753863, rawDataSize=0]
OK
Time taken: 1.977 seconds
```

```
hive> SELECT * FROM delivery_data LIMIT 10;
```

```
OK
NULL NULL NULL NULL Order_Date Order_Time Pickup_Time Weather Traffic Vehicle Area Delivery_Time Category Country
37 4.9 22.765049 75.912471 2022-03-19 1900-01-01 11:30:00 1900-01-01 11:45:00 sunny High motorcycle Urban 120 Clothing
USA
34 4.5 13.043041 77.813237 2022-03-25 1900-01-01 19:45:00 1900-01-01 19:50:00 stormy Jam scooter Metropolitan 165 E
electronics USA
23 4.4 12.924264 77.6884 2022-03-19 1900-01-01 08:30:00 1900-01-01 08:45:00 sandstorms Low motorcycle Urban 130 Sports U
SA
38 4.7 11.053669 77.026494 2022-04-05 1900-01-01 18:00:00 1900-01-01 18:10:00 sunny Medium motorcycle Metropolitan 105 C
cosmetics China
32 4.6 13.012793 80.289982 2022-03-26 1900-01-01 13:30:00 1900-01-01 13:45:00 cloudy High scooter Metropolitan 150 T
oys China
22 4.8 17.461668 78.438321 2022-03-11 1900-01-01 21:20:00 1900-01-01 21:30:00 cloudy Jam motorcycle Urban 130 Toys G
ermany
33 4.7 23.479746 85.44982 2022-03-04 1900-01-01 19:15:00 1900-01-01 19:30:00 fog Jam scooter Metropolitan 200 T
oys Germany
35 4.6 12.482058 76.73665 2022-03-14 1900-01-01 17:25:00 1900-01-01 17:30:00 cloudy Medium motorcycle Metropolitan 160 S
nacks USA
22 4.8 17.563809 78.516744 2022-03-20 1900-01-01 20:55:00 1900-01-01 21:05:00 stormy Jam motorcycle Metropolitan 170 E
electronics USA
Time taken: 1.975 seconds, Fetched: 10 row(s)
```

```
hive> -- Average Delivery Time by Category
> SELECT Category, AVG(Delivery_Time) AS Avg_Delivery_Time
> FROM delivery_data
> GROUP BY Category;
Query ID = root_20241102165048_3a4bc84c-22ca-46cc-9a43-f838247f2423
Total jobs = 1
Launching Job 1 out of 1
Tez session was closed. Reopening...
Session re-established.
```


Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	SUCCEEDED	1	1	0	0	0	0
Reducer 2	SUCCEEDED	1	1	0	0	0	0

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 17.75 s

OK

Apparel 132.0487894350697

Books 131.02160056657223

Category NULL

Clothing 130.48368953880765

Cosmetics 132.90250280164364

Electronics 130.83713583713583

Grocery 26.539576365663322

Home 130.95530726256985

Jewelry 130.7530335474661

Kitchen 132.32697343808454

Outdoors 131.05933745904622

Pet Supplies 131.29182156133828

Shoes 131.1515378844711

Skincare 132.02741702741702

Snacks 131.9043321299639

Sports 132.24714968738508

Toys 129.39590075512405

Time taken: 39.584 seconds, Fetched: 17 row(s)

hive> -- Agent Performance by Area

> SELECT Area, AVG(Agent_Rating) AS Avg_Rating, AVG(Agent_Age) AS Avg_Age

> FROM delivery_data

> GROUP BY Area;

Query ID = root_20241102165305_1a6e9216-add7-47e5-a0a6-f0f095fe39b8

Total jobs = 1

Launching Job 1 out of 1

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	SUCCEEDED	1	1	0	0	0	0
Reducer 2	SUCCEEDED	1	1	0	0	0	0

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 10.42 s

OK

Area NULL NULL

Metropolitan 4.61688788385302 29.7851244724448

Other 4.664323371826869 28.789982425307556

Semi-Urban 4.49210524559021 32.56578947368421

Urban 4.6634088791941215 28.88011486001436

Time taken: 14.04 seconds, Fetched: 5 row(s)

```
hive> -- Average Delivery time by weather condition
> SELECT Weather, AVG(Delivery_Time) AS Avg_Delivery_Time
> FROM delivery_data
> GROUP BY Weather;
Query ID = root_20241102165433_54f8a655-c7ca-43d7-8aaa-f794e55bd4d3
Total jobs = 1
Launching Job 1 out of 1
```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

	VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1		SUCCEEDED	1	1	0	0	0	0
Reducer 2		SUCCEEDED	1	1	0	0	0	0

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 10.04 s

```
OK
0      120.67032967032966
Weather NULL
cloudy 138.28677277716795
fog     136.57083333333333
sandstorms 123.23850931677019
stormy 123.21182533224844
sunny 103.66445323537722
windy 123.65803682680327
```

Time taken: 11.563 seconds, Fetched: 8 row(s)

```
hive> -- Impact of traffic on Delivery time
> SELECT Traffic, AVG(Delivery_Time) AS Avg_Delivery_Time
> FROM delivery_data
> GROUP BY Traffic;
Query ID = root_20241102165558_e6b026ff-4071-465b-a6be-eadac7d139f0
Total jobs = 1
Launching Job 1 out of 1
```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

	VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1		SUCCEEDED	1	1	0	0	0	0
Reducer 2		SUCCEEDED	1	1	0	0	0	0

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 11.42 s

```
OK
High 129.42411545623835
Jam 147.75897996357014
Low 101.3545569704647
Medium 126.83966879939781
NaN 120.67032967032966
```

```
Traffic NULL
Time taken: 12.736 seconds, Fetched: 6 row(s)
```

```
hive> -- Average delivery time by vehicle type in different areas
> SELECT Vehicle, Area, AVG(Delivery_Time) AS Avg_Delivery_Time
> FROM delivery_data
> GROUP BY Vehicle, Area;
Query ID = root_20241102165737_eb5d288b-a41b-4b91-b8f9-68ecebaf0d03
Total jobs = 1
Launching Job 1 out of 1
```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	SUCCEEDED	1	1	0	0	0	0
Reducer 2	SUCCEEDED	1	1	0	0	0	0

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 9.18 s

```
OK
Vehicle Area      NULL
bicycle           Metropolitan 127.0
motorcycle        Metropolitan 135.27401859504133
motorcycle        Other 109.35643564356435
motorcycle        Semi-Urban 238.53571428571428
motorcycle        Urban 115.50249031543996
scooter           Metropolitan 121.80020597322348
scooter           Other 98.02257336343115
scooter           Semi-Urban 236.66666666666666
scooter           Urban 101.80148317170564
van               Metropolitan 120.83762301286905
van               Other 103.2247191011236
van               Semi-Urban 245.0
van               Urban 101.99150485436893
```

Time taken: 10.485 seconds, Fetched: 14 row(s)

```
hive> -- Top 5 Product Categories by Sales Volume for Each Country
> SELECT Country, Category, COUNT(*) AS Sales_Volume
> FROM delivery_data
> GROUP BY Country, Category
> ORDER BY Country, Sales_Volume DESC
> LIMIT 5;
```

```
Query ID = root_20241102165948_14f2e5fa-a162-40e5-a23f-e04f78c2bf5c
Total jobs = 1
Launching Job 1 out of 1
```

Status: Running (Executing on YARN cluster with App id application_1730561871358_0003)

VERTICES	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	SUCCEEDED	1	1	0	0	0	0
Reducer 2	SUCCEEDED	1	1	0	0	0	0
Reducer 3	SUCCEEDED	1	1	0	0	0	0

VERTICES: 03/03 [=====>>] 100% ELAPSED TIME: 8.21 s

```
OK
China Books 686
China Electronics 654
China Outdoors 650
China Jewelry 650
China Pet Supplies 632
```

Time taken: 10.039 seconds, Fetched: 5 row(s)