Screenshots of Map-Reduce HIve Query Results

```
Time taken: 4.397 seconds, Fetched: 1001 row(s)
hive> SELECT Year, avg((NASDelay /ArrDelay)*100) from mydemo.flight_delay GROUP BY Year;
Query ID = hadoop_20230305105458_750384ba-76e6-495b-b5b1-e7f23a6c2af6
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1677998840010_0020)

--------------------------------------------------------------------------------
        VERTICES      MODE      STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
--------------------------------------------------------------------------------
Map 1 .......... container    SUCCEEDED    1        1        0        0       0       0
Reducer 2 ...... container    SUCCEEDED    2        2        0        0       0       0
--------------------------------------------------------------------------------
VERTICES: 02/02  [==========================>>] 100%  ELAPSED TIME: 4.27 s
--------------------------------------------------------------------------------
OK
4       0.0
5       NULL
9       NULL
10      0.0
12      0.0
14      0.0
16      0.0
23      222.61904761904762
24      NULL
26      0.0
28      17.322834645669293
30      NULL
31      0.0
36      0.0
37      0.0
38      53.50877192982456
42      0.0
43      0.0
45      0.0
50      0.0
51      0.0
52      0.0
53      0.0
56      0.0
58      0.0
59      0.0
61      0.0
63      0.0
67      0.0
```

```
hive> SELECT Year, avg((WeatherDelay /ArrDelay)*100) from mydemo.flight_delay GROUP BY Year;
Query ID = hadoop_20230305110130_4a131db8-276f-4d21-bcc5-dfd01f81e496
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1677998840010_0021)

--------------------------------------------------------------------------------------------
        VERTICES      MODE        STATUS    TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
--------------------------------------------------------------------------------------------
Map 1 .......... container     SUCCEEDED      1         1        0        0       0       0
Reducer 2 ...... container     SUCCEEDED      2         2        0        0       0       0
--------------------------------------------------------------------------------------------
VERTICES: 02/02  [==========================>>] 100%  ELAPSED TIME: 4.59 s
--------------------------------------------------------------------------------------------
OK
4       0.0
5       NULL
9       NULL
10      3.7209302325581395
12      0.0
14      0.0
16      0.0
23      0.0
24      NULL
26      32.20338983050847
28      0.0
30      NULL
31      30.973451327433626
36      27.82608695652174
37      0.0
38      0.0
42      6.493506493506493
43      17.36111111111111
45      26.618705035971225
50      0.0
51      0.0
52      0.0
53      0.0
56      0.0
58      0.0
59      0.0
61      26.27118644067797
63      0.0
67      0.0
```

```
Time taken: 0.078 seconds, Fetched: 1001 row(s)
[hive> SELECT Year, avg((SecurityDelay /ArrDelay)*100) from mydemo.flight_delay GROUP BY Year;
Query ID = hadoop_20230305110430_e26ceded-7be8-49c6-9d67-2cbc9c0e0c83
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1677998840010_0021)

--------------------------------------------------------------------------------
        VERTICES      MODE        STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
--------------------------------------------------------------------------------
Map 1 .......... container    SUCCEEDED      1          1        0        0       0       0
Reducer 2 ...... container    SUCCEEDED      2          2        0        0       0       0
--------------------------------------------------------------------------------
VERTICES: 02/02  [==========================>>] 100%  ELAPSED TIME: 4.52 s
--------------------------------------------------------------------------------
OK
4       37.38317757009346
5       NULL
9       NULL
10      2.7906976744186047
12      10.38961038961039
14      3.75
16      6.493506493506493
23      41.66666666666667
24      NULL
26      0.0
28      9.448818897637794
30      NULL
31      0.0
36      0.0
37      0.0
38      36.84210526315789
42      8.441558441558442
43      3.4722222222222223
45      1.4388489208633095
50      0.0
51      51.2396694214876
52      12.844036697247708
53      28.07017543859649
56      37.27272727272727
```

```
Time taken: 4.45 seconds, Fetched: 1001 row(s)
hive> SELECT Year, avg((CarrierDelay /ArrDelay)*100) from mydemo.flight_delay GROUP BY Year;
Query ID = hadoop_20230305105337_e40d707e-6e61-4d9c-ac60-1b9f57904b4e
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1677998840010_0020)

--------------------------------------------------------------------------------
        VERTICES      MODE        STATUS  TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
--------------------------------------------------------------------------------
Map 1 .......... container    SUCCEEDED      1          1        0        0       0       0
Reducer 2 ...... container    SUCCEEDED      2          2        0        0       0       0
--------------------------------------------------------------------------------
VERTICES: 02/02  [==========================>>] 100%  ELAPSED TIME: 3.88 s
--------------------------------------------------------------------------------
OK
4       0.0
5       0.0
9       0.0
10      0.0
12      0.0
14      0.0
16      0.0
23      0.0
24      0.0
26      0.0
28      0.0
30      0.0
31      0.0
36      0.0
37      0.0
38      0.0
42      0.0
43      0.0
45      0.0
50      0.0
51      0.0
52      0.0
53      0.0
56      0.0
58      0.0
59      0.0
61      0.0
63      0.0
```

```
Time taken: 8.239 seconds, Fetched: 1001 row(s)
hive> SELECT Year, avg((LateAircraftDelay /ArrDelay)*100) from mydemo.flight_delay GROUP BY Year;
Query ID = hadoop_20230305110301_4cc2c430-4fb3-4c2e-8a0d-caf31bf94f1b
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1677998840010_0021)

----------------------------------------------------------------------------------------------
        VERTICES      MODE      STATUS    TOTAL  COMPLETED  RUNNING  PENDING  FAILED  KILLED
----------------------------------------------------------------------------------------------
Map 1 .......... container    SUCCEEDED      1          1        0        0       0       0
Reducer 2 ...... container    SUCCEEDED      2          2        0        0       0       0
----------------------------------------------------------------------------------------------
VERTICES: 02/02  [==========================>>] 100%  ELAPSED TIME: 5.30 s
----------------------------------------------------------------------------------------------
OK
4       0.0
5       NULL
9       NULL
10      0.0
12      0.0
14      0.0
16      0.0
23      0.0
24      NULL
26      0.0
28      0.0
30      NULL
31      0.0
36      0.0
37      0.0
38      0.0
42      0.0
43      0.0
45      0.0
50      0.0
51      0.0
52      0.0
53      0.0
56      0.0
58      0.0
59      0.0
61      0.0
63      0.0
```