

Results of MapReduce

CarrierDelay:

```
hive> SELECT Year, avg((CarrierDelay /ArrDelay)*100) from flightdelays GROUP BY Year;
Query ID = hadoop_20240306193145_9a53a9c1-bc88-4ff9-971b-c46f90f48a7d
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1709753063177_0001)
```

	VERTICES	MODE	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	container	SUCCEDED	1	1	0	0	0	0	
Reducer 2	container	SUCCEDED	2	2	0	0	0	0	

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 13.27 s

```
OK
2004 43.64459443230066
2009 28.33058554239575
NULL NULL
2003 24.557549755575373
2005 28.01977637202288
2006 30.453296261292596
2007 19.850007017971283
2008 28.88346981456985
2010 21.89310246015957
Time taken: 15.597 seconds, Fetched: 9 row(s)
```

NASDelay:

```
hive> SELECT Year, avg((NASDelay /ArrDelay)*100) from flightdelays GROUP BY Year;
Query ID = hadoop_20240306193252_16f232ca-fa81-4fbf-be94-927b79ebc2d8
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1709753063177_0001)
```

	VERTICES	MODE	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	container	SUCCEDED	1	1	0	0	0	0	
Reducer 2	container	SUCCEDED	2	2	0	0	0	0	

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 6.76 s

```
OK
2004 18.24570061769958
2009 37.63093330628511
NULL NULL
2003 29.686276314267346
2005 16.63868805373129
2006 18.119312329937703
2007 30.625925917941924
2008 30.16552562594132
2010 33.87351363404217
Time taken: 7.054 seconds, Fetched: 9 row(s)
```

WeatherDelay:

```
hive> SELECT Year, avg((WeatherDelay /ArrDelay)*100) from flightdelays GROUP BY Year;
Query ID = hadoop_20240306193350_9b77a20c-a02b-4a86-9bae-522b60f9ae3c
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1709753063177_0001)
```

	VERTICES	MODE	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	container	SUCCEDED	1	1	0	0	0	0	
Reducer 2	container	SUCCEDED	2	2	0	0	0	0	

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 6.66 s

```
OK
2004      6.4475279976916555
2009      0.45316615137982363
NULL      NULL
2003      7.8319479664511205
2005      5.85069715149616
2006      4.588604183967953
2007      4.042975783210287
2008      3.7254490054008955
2010      2.9023312955584664
Time taken: 6.946 seconds, Fetched: 9 row(s)
```

SecurityDelay:

```
hive> SELECT Year, avg((SecurityDelay /ArrDelay)*100) from flightdelays GROUP BY Year;
Query ID = hadoop_20240306193441_fbc2db71-4ca2-443f-abc6-0b14a4d49b51
Total jobs = 1
Launching Job 1 out of 1
Status: Running (Executing on YARN cluster with App id application_1709753063177_0001)
```

	VERTICES	MODE	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	container	SUCCEDED	1	1	0	0	0	0	
Reducer 2	container	SUCCEDED	2	2	0	0	0	0	

VERTICES: 02/02 [=====>>] 100% ELAPSED TIME: 7.03 s

```
OK
2004      0.0
2009      0.0
NULL      NULL
2003      0.0
2005      0.0
2006      0.0
2007      0.22865853658536586
2008      0.0
2010      0.0
Time taken: 7.278 seconds, Fetched: 9 row(s)
```

LateAircraftDelay:

```
hive> SELECT Year, avg((LateAircraftDelay /ArrDelay)*100) from flightdelays GROUP BY Year;  
Query ID = hadoop_20240306193531_d23aae53-1cb1-46a2-9743-f2900cd930aa
```

```
Total jobs = 1
```

```
Launching Job 1 out of 1
```

```
Status: Running (Executing on YARN cluster with App id application_1709753063177_0001)
```

	VERTICES	MODE	STATUS	TOTAL	COMPLETED	RUNNING	PENDING	FAILED	KILLED
Map 1	container	SUCCEDED	1	1	0	0	0	0	
Reducer 2	container	SUCCEDED	2	2	0	0	0	0	

```
VERTICES: 02/02  [=====>>] 100%  ELAPSED TIME: 6.27 s
```

```
OK
```

```
2004 31.662176952308105
```

```
2009 33.585314999939314
```

```
NULL NULL
```

```
2003 37.924225963706164
```

```
2005 49.490838422749654
```

```
2006 46.838787224801735
```

```
2007 45.252432744291134
```

```
2008 37.22555555408794
```

```
2010 41.331052610239794
```

```
Time taken: 6.501 seconds, Fetched: 9 row(s)
```