

Hadoop Airlines Analysis Project with using HIVE

Step 1:

Creating the new airport table for airports_mod.dat dataset.

Command:

Create table airport (Airport_ID string, Name string, City string, Country string, IATA_FAA string, ICAO string, Latitude string, Longitude string, Altitude string, Timezone string, DST string, TZ string) row format delimited fields terminated by ',';

Screenshot:

```
hive> create table airport (Airport_ID string, Name string, City string, Country s
tring, IATA_FAA string, ICAO string, Latitude string, Longitude string, Altitude s
tring, Timezone string, DST string, TZ string) row format delimited fields termina
ted by ',';
OK
Time taken: 0.204 seconds
hive>
```

Step 2:

Creating the new final airlines table for Final_airlines dataset.

Command:

Create table finalairlines(Airline string, Name string, Alias string, IATA string, ICAO string, Callsign string, Country string, Active String) row format delimited fields terminated by ',';

Screenshot:

```
hive> create table finalairlines (Airline string, Name string, Alias string, IATA
string, ICAO string, Callsign string, Country string, Active string) row format de
limited fields terminated by ',';
OK
Time taken: 0.058 seconds
hive>
```

Step 3:

Creating the new route table for routes.dat dataset.

Command:

Create table route (Airline string, Airline_ID string, Source_Airport string, Source_Airport_ID string, Destination_airport string, Destination_Airport_ID string, Codeshare string, Stops string, Equipment string) row format delimited fields terminated by ',';

Screenshot:

```
hive> create table route (Airline string, Airline_ID string, Source_Airport string, Source_Airport_ID string, Destination_Airport string, Destination_Airport_ID string, Codeshare string, Stops string, Equipment string) row format delimited fields terminated by ',';
OK
Time taken: 0.038 seconds
hive>
```

Step 4:

Loading the dataset into airport table.

Command:

load data local inpath

'/mnt/home/edureka_1472935/Airlines_Analysis_Project/airport/airports_mod.dat' overwrite into table airport;

Screenshot:

```
hive> load data local inpath '/mnt/home/edureka_1472935/Airlines_Analysis_Project/airport/airports_mod.dat' overwrite into table airport;
Loading data to table default.airport
Table default.airport stats: [numFiles=1, numRows=0, totalSize=739515, rawDataSize=0]
OK
Time taken: 1.522 seconds
```

Step 5:

Loading the dataset into finalairlines table.

Command:

load data local inpath

'/mnt/home/edureka_1472935/Airlines_Analysis_Project/final_airline/Final_airlines' overwrite into table finalairlines;

Screenshot:

```
hive> load data local inpath '/mnt/home/edureka_1472935/Airlines_Analysis_Project/
final_airline/Final_airlines' overwrite into table finalairlines;
Loading data to table default.finalairlines
Table default.finalairlines stats: [numFiles=1, numRows=0, totalSize=316243, rawDa
taSize=0]
OK
Time taken: 0.672 seconds
hive> █
```

Step 6:**Loading the dataset into route table.****Command:**

```
load data local inpath
'/mnt/home/edureka_1472935/Airlines_Analysis_Project/routes/routes.dat'
overwrite into table route;
```

Screenshot:

```
hive> load data local inpath '/mnt/home/edureka_1472935/Airlines_Analysis_Project/
routes/routes.dat' overwrite into table route;
Loading data to table default.route
Table default.route stats: [numFiles=1, numRows=0, totalSize=2375505, rawDataSize=
0]
OK
Time taken: 1.351 seconds
hive> █
```

Solutions:**A.Find list of Airports operating in the Country India****Command:**

```
create table india_airport122 as select * from airport where Country LIKE
'%India%';
```

Screenshot:

```
hive> Create table india_airport122 as select * from airport where Country LIKE '%India%';
Query ID = edureka_1472935_20210424204545_9ad19a32-0684-4058-89f7-a035f697140e
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1616262377730_6331, Tracking URL = http://ip-20-0-21-161.ec2.internal:8088/pr
oxy/application_1616262377730_6331/
Kill Command = /opt/cloudera/parcels/CDH-5.11.1-1.cdh5.11.1.p0.4/lib/hadoop/bin/hadoop job -kil
l job_1616262377730_6331
█
```

```

Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 0
2021-04-24 20:45:43,713 Stage-1 map = 0%, reduce = 0%
2021-04-24 20:45:49,857 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.89 sec
MapReduce Total cumulative CPU time: 2 seconds 890 msec
Ended Job = job_1616262377730_6331
Stage-4 is selected by condition resolver.
Stage-3 is filtered out by condition resolver.
Stage-5 is filtered out by condition resolver.
Moving data to: hdfs://nameservice1/user/hive/warehouse/.hive-staging_hive_2021-04-24_20-45-23_6
89_7714171446873181838-1/-ext-10001
Moving data to: hdfs://nameservice1/user/hive/warehouse/india_airport122
Table default.india_airport122 stats: [numFiles=1, numRows=141, totalSize=11569, rawDataSize=114
28]
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Cumulative CPU: 2.89 sec HDFS Read: 743864 HDFS Write: 11653 SUCCESS
Total MapReduce CPU Time Spent: 2 seconds 890 msec
OK
Time taken: 27.431 seconds
hive>

```

Command:

Select * from india_airport122 limit 10; (to show the first 10 observation since we have a big dataset.)

```

hive> select * from india_airport122 limit 10;
OK
895      Diego Garcia Nsf      Diego Garcia Island      British Indian Ocean Territory      F
JDG      -7.313267      72.411089      9      6      U      Indian/Chagos
2994      Ahmedabad      Ahmedabad      India      AMD      VAAH      23.077242      72.63465      1
89      5.5      N      Asia/Calcutta
2995      Akola      Akola      India      AKD      VAAK      20.699006      77.058628      999      5.5      N
Asia/Calcutta
2996      Aurangabad      Aurangabad      India      IXU      VAAU      19.862728      75.398114      1
911      5.5      N      Asia/Calcutta
2997      Chhatrapati Shivaji Intl      Mumbai      India      BOM      VABB      19.088686      72.86791
9      37      5.5      N      Asia/Calcutta
2998      Bilaspur      Bilaspur      India      PAB      VABI      21.9884      82.110983      899      5
.5      N      Asia/Calcutta
2999      Bhuj      Bhuj      India      BHJ      VABJ      23.287828      69.670147      268      5.5      N
Asia/Calcutta
3000      Belgaum      Belgaum      India      IXG      VABM      15.859286      74.618292      2487      5.5      N
Asia/Calcutta
3001      Vadodara      Baroda      India      BDQ      VABO      22.336164      73.226289      129      5
.5      N      Asia/Calcutta
3002      Bhopal      Bhopal      India      BHO      VABP      23.287467      77.337375      1719      5.5      N
Asia/Calcutta
Time taken: 0.043 seconds, Fetched: 10 row(s)
hive>

```

B. Find the list of Airlines having zero stops

Command:

Create table stop122 as select * from route where Stops LIKE '%0';

Screenshot:

```

hive> create table stop122 as select * from route where Stops LIKE '%0';
Query ID = edureka_1472935_20210424204949_e1816fcd-6dba-4ccb-84b0-931fb94e65ce
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1616262377730_6333, Tracking URL = http://ip-20-0-21-161.ec2.internal:8088/proxy/application_1616262377730_6333/
Kill Command = /opt/cloudera/parcels/CDH-5.11.1-1.cdh5.11.1.p0.4/lib/hadoop/bin/hadoop job -kill job_1616262377730_6333
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 0
2021-04-24 20:49:12,842 Stage-1 map = 0%, reduce = 0%
2021-04-24 20:49:17,947 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.59 sec
MapReduce Total cumulative CPU time: 3 seconds 590 msec
Ended Job = job_1616262377730_6333
Stage-4 is selected by condition resolver.
Stage-3 is filtered out by condition resolver.
Stage-5 is filtered out by condition resolver.
Moving data to: hdfs://nameservice1/user/hive/warehouse/.hive-staging_hive_2021-04-24_20-49-06_99_950132857871916526-1/-ext-10001
Moving data to: hdfs://nameservice1/user/hive/warehouse/stop122
Table default.stop122 stats: [numFiles=1, numRows=67652, totalSize=2307487, rawDataSize=2239835]
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Cumulative CPU: 3.59 sec HDFS Read: 2379726 HDFS Write: 2307566 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 590 msec
OK
Time taken: 12.223 seconds
hive>

```

Samples of 0 stop of the airline in the dataset.

```

hive> select * from stop122 limit 10;
OK
2B      410      AER      2965      KZN      2990      0      CR2
2B      410      ASF      2966      KZN      2990      0      CR2
2B      410      ASF      2966      MRV      2962      0      CR2
2B      410      CEK      2968      KZN      2990      0      CR2
2B      410      CEK      2968      OVB      4078      0      CR2
2B      410      DME      4029      KZN      2990      0      CR2
2B      410      DME      4029      NBC      6969      0      CR2
2B      410      DME      4029      TGK      NULL      0      CR2
2B      410      DME      4029      UUA      6160      0      CR2
2B      410      EGO      6156      KGD      2952      0      CR2
Time taken: 0.045 seconds, Fetched: 10 row(s)
hive>

```

C.List of Airlines operating with code share**Command:**

Create table codeshare_122 as select * from route where Codeshare LIKE '%Y%';

```

hive> create table codeshare_122 as select * from route where Codeshare LIKE '%Y%';
Query ID = edureka_1472935_20210424205252_870d0c9a-1d35-4b98-84f2-8cdb9afe223e
Total jobs = 3
Launching Job 1 out of 3
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1616262377730_6337, Tracking URL = http://ip-20-0-21-161.ec2.internal:8088/proxy/application_1616262377730_6337/
Kill Command = /opt/cloudera/parcels/CDH-5.11.1-1.cdh5.11.1.p0.4/lib/hadoop/bin/hadoop job -kill job_1616262377730_6337
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 0
2021-04-24 20:52:31,488 Stage-1 map = 0%, reduce = 0%
2021-04-24 20:52:42,919 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.25 sec
MapReduce Total cumulative CPU time: 3 seconds 250 msec
Ended Job = job_1616262377730_6337
Stage-4 is selected by condition resolver.
Stage-3 is filtered out by condition resolver.
Stage-5 is filtered out by condition resolver.
Moving data to: hdfs://nameservice1/user/hive/warehouse/.hive-staging_hive_2021-04-24_20-52-07_398_3743509910093708601-1/-ext-10001
Moving data to: hdfs://nameservice1/user/hive/warehouse/codeshare_122
Table default.codeshare_122 stats: [numFiles=1, numRows=14597, totalSize=511399, rawDataSize=496802]
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Cumulative CPU: 3.25 sec HDFS Read: 2379736 HDFS Write: 511483 SUCCESS
Total MapReduce CPU Time Spent: 3 seconds 250 msec
OK
Time taken: 37.788 seconds
hive>

```

Examples:

```

hive> select * from codeshare_122 limit 10;
OK
2P      897      GES      6011      MNL      2397      Y          0          320
2P      897      MNL      2397      GES      6011      Y          0          320
4M      3201     DFW      3670      EZE      3988      Y          0          777
4M      3201     EZE      3988      DFW      3670      Y          0          777
4M      3201     EZE      3988      JFK      3797      Y          0          777
4M      3201     JFK      3797      EZE      3988      Y          0          777
5N      503      ARH      4362      CSH      6110      Y          0          AN4
5N      503      ARH      4362      MMK      2949      Y          0          AN4
5N      503      ARH      4362      USK      4369      Y          0          AN4
5N      503      CSH      6110      ARH      4362      Y          0          AN4
Time taken: 0.041 seconds, Fetched: 10 row(s)
hive>

```

D.Which country (or) territory having highest Airports

Answer is United State of America.

Command:

select Country,count(*) as cnt from airport group by Country SORT BY cnt DESC;

Screenshot:

```

hive> select Country,count(*) as cnt from airport group by Country SORT BY cnt DESC;
Query ID = edureka_1472935_20210424205555_a4191a93-1742-45b6-860b-8ded76700da2
Total jobs = 2
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=<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>
Starting Job = job_1616262377730_6338, Tracking URL = http://ip-20-0-21-161.ec2.internal:8088/proxy/application_1616262377730_6338/
Kill Command = /opt/cloudera/parcels/CDH-5.11.1-1.cdh5.11.1.p0.4/lib/hadoop/bin/hadoop job -kill job_1616262377730_6338
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2021-04-24 20:55:59,897 Stage-1 map = 0%, reduce = 0%
2021-04-24 20:56:05,324 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.03 sec
2021-04-24 20:56:10,504 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 5.05 sec
MapReduce Total cumulative CPU time: 5 seconds 50 msec
Ended Job = job_1616262377730_6338
Launching Job 2 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=<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>
Starting Job = job_1616262377730_6339, Tracking URL = http://ip-20-0-21-161.ec2.internal:8088/proxy/application_1616262377730_6339/
Kill Command = /opt/cloudera/parcels/CDH-5.11.1-1.cdh5.11.1.p0.4/lib/hadoop/bin/hadoop job -kill job_1616262377730_6339
Hadoop job information for Stage-2: number of mappers: 1; number of reducers: 1
2021-04-24 20:56:16,302 Stage-2 map = 0%, reduce = 0%
2021-04-24 20:56:21,453 Stage-2 map = 100%, reduce = 0%, Cumulative CPU 2.25 sec
2021-04-24 20:56:26,557 Stage-2 map = 100%, reduce = 100%, Cumulative CPU 4.24 sec
MapReduce Total cumulative CPU time: 4 seconds 240 msec
Ended Job = job_1616262377730_6339
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1 Cumulative CPU: 5.05 sec HDFS Read: 746587 HDFS Write: 7092 SUCCESS
Stage-Stage-2: Map: 1 Reduce: 1 Cumulative CPU: 4.24 sec HDFS Read: 11766 HDFS Write: 3151 SUCCESS
Total MapReduce CPU Time Spent: 9 seconds 290 msec
OK
United States 1697
Canada 435
Germany 321
Australia 263
Russia 249
France 233
China 219
Brazil 213
United Kingdom 209
India 140
Japan 131
Indonesia 114
South Africa 103
Argentina 103

```

```

Mexico 94
Italy 92
Sweden 86
Spain 84
Iran 81
Turkey 77
Colombia 72
Norway 69
Philippines 64
Greece 60
Venezuela 58
Thailand 58
Papua New Guinea 57
New Zealand 56
Kenya 55
Switzerland 53
Finland 51
Malaysia 47
Pakistan 46
Madagascar 45
Algeria 44
Burma 43
Peru 43
Maldives 42
Saudi Arabia 42

```

E.Find the list of Active Airlines in United state

Command:

```
select * from finalairlines where Country like '%United States%' AND Active like '%Y%';
```

Screenshot:

```

hive> select * from finalairlines where Country like '%United States%' AND Active like '%Y%';
Query ID = edureka_1472935_20210424205959_1998a9e5-3777-4785-b8bb-e7d3ca1d0fe9
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks is set to 0 since there's no reduce operator
Starting Job = job_1616262377730_6342, Tracking URL = http://ip-20-0-21-161.ec2.internal:8088/proxy/application_1616262377730_6342/
Kill Command = /opt/cloudera/parcels/CDH-5.11.1-1.cdh5.11.1.p0.4/lib/hadoop/bin/hadoop job -kill job_1616262377730_6342
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 0
2021-04-24 20:59:42,689 Stage-1 map = 0%, reduce = 0%
2021-04-24 20:59:48,812 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 2.37 sec
MapReduce Total cumulative CPU time: 2 seconds 370 msec
Ended Job = job_1616262377730_6342
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Cumulative CPU: 2.37 sec HDFS Read: 320546 HDFS Write: 7886 SUCCESS
Total MapReduce CPU Time Spent: 2 seconds 370 msec
OK

```


10	40-Mile Air	NULL	Q5	MLA	MILE-AIR	United States	Y		
22	Aloha Airlines	NULL	AQ	AAH	ALOHA	United States	Y		
24	American Airlines	NULL	AA	AAL	AMERICAN	United States	Y		Y
35	Allegiant Air	NULL	G4	AAV	ALLEGiant	United States	Y		
109	Alaska Central Express	NULL	KO	AER	ACE AIR	United States	Y		
149	Air Cargo Carriers	NULL	2Q	SNC	NIGHT CARGO	United States	Y		Y
210	Airlift International	NULL		AIR	AIRLIFT	United States	Y		
281	America West Airlines	NULL	HP	AWE	CACTUS	United States	Y		
282	Air Wisconsin	NULL	ZW	AWI	AIR WISCONSIN	United States	Y		
287	Allegheny Commuter Airlines	NULL		ALO	ALLEGHENY	United States	Y		Y
295	Air Sunshine	NULL		RSI	AIR SUNSHINE	United States	Y		
315	ATA Airlines	NULL		AMT	AMTRAN	United States	Y		
397	Arrow Air	NULL	JW	APW	BIG A	United States	Y		
452	Atlantic Southeast Airlines	NULL		EV	ASQ	ACEY	United States	Y	
659	American Eagle Airlines	NULL	MQ	EGF	EAGLE FLIGHT	United States	Y		Y
792	Access Air	NULL	ZA	CYD	CYCLONE	United States	Y		
882	Air Florida	NULL	QH	FLZ	AIR FLORIDA	United States	Y		
928	Atlas Air	NULL	5Y	GTI	GIANT	United States	Y		
1316	AirTran Airways	NULL	FL	TRS	CITRUS	United States	Y		
1442	Bemidji Airlines	NULL	CH	BMJ	BEMIDJI	United States	Y		
1472	Bering Air	NULL	8E	BRG	BERING AIR	United States	Y		
1629	Cape Air	NULL	9K	KAP	CAIR	United States	Y		
1739	Chautauqua Airlines	NULL	RP	CHQ	CHAUTAUQUA	United States	Y		Y
1814	Coastal Air	NULL	DQ		U.S. Virgin Islands	United States	Y		Y
1821	Colgan Air	NULL	9L	CJC	COLGAN	United States	Y		
1828	Comair	NULL	OH	COM	COMAIR	United States	Y		
1843	CommotAir	NULL	C5	UCA	COMMUTAIR	United States	Y		
1860	Compass Airlines	NULL	CP	CPZ	Compass Rose	United States	Y		Y
1881	Continental Airlines	NULL	CO	COA	CONTINENTAL	United States	Y		Y
1883	Continental Express	NULL	CO		JETLINK	United States	Y		
1884	Continental Micronesia	NULL	CS	CMI	AIR MIKE	United States	Y		Y
1931	Crown Airways	NULL		CRO	CROWN AIRWAYS	United States	Y		
2009	Delta Air Lines	NULL	DL	DAL	DELTA	United States	Y		
2261	Evergreen International Airlines			NULL	EZ	EIA	EVERGREEN		United S
2293	Express One International		NULL	EO	LHN	LONGHORN	United States	Y	Y
2295	ExpressJet	NULL	XE	BTA	JET LINK	United States	Y		
2404	Florida West International Airways			NULL	RF	FWL	FLO WEST		United S
2454	Freedom Air	NULL	FP	FRE	FREEDOM	United States	Y		
2456	Freedom Airlines	NULL		FRL	FREEDOM AIR	United States	Y		

1828	Comair	NULL	OH	COM	COMAIR	United States	Y						
1843	CommutAir		NULL	C5	UCA	COMMUTAIR	United States	Y					
1860	Compass Airlines			NULL	CP	CPZ	Compass Rose	United States	Y				
1881	Continental Airlines			NULL	CO	COA	CONTINENTAL	United States	Y				
1883	Continental Express			NULL	CO		JETLINK	United States	Y				
1884	Continental Micronesia			NULL	CS	CMI	AIR MIKE	United States	Y				
1931	Crown Airways			NULL	CRO	CROWN	AIRWAYS	United States	Y				
2009	Delta Air Lines			NULL	DL	DAL	DELTA	United States	Y				
2261	Evergreen International Airlines					NULL	EZ	EIA	EVERGREEN			United S	
tates	Y												
2293	Express One International				NULL	EO	LHN	LONGHORN		United States	Y		
2295	ExpressJet				XE	BTA	JET LINK		United States	Y			
2404	Florida West International Airways					NULL	RF	FWL	FLO WEST			United S	
tates	Y												
2454	Freedom Air				FP	FRE	FREEDOM	United States	Y				
2456	Freedom Airlines				NULL		FRL	FREEDOM AIR	United States	Y			
2468	Frontier Airlines				NULL	F9	FFT	FRONTIER FLIGHT	United States	Y			
2470	Frontier Flying Service			NULL	2F	FTA	FRONTIER-AIR	United States	Y				
2577	GoJet Airlines			NULL	G7	GJS	GATEWAY	United States	Y				
2607	Great Lakes Airlines			NULL	ZK	GLA	LAKES AIR		United States	Y			
2645	Gulfstream International Airlines					NULL		GFT	GULF FLIGHT			United S	
tates	Y												
2657	Hageland Aviation Services				NULL	H6	HAG	HAGELAND		United States	Y		
2688	Hawaiian Airlines				NULL	HA	HAL	HAWAIIAN	United States	Y			
2778	Horizon Air						QX	QXE	HORIZON AIR			United States	Y
2855	Indigo				NULL	I9	IBU	INDIGO BLUE	United States	Y			
2937	Island Airlines			NULL	IS				United States	Y			
3001	Jet Airways			NULL	QJ				United States	Y			
3029	JetBlue Airways			NULL	B6	JBU	JETBLUE	United States	Y				
3123	Kenmore Air			NULL	M5	KEN	KENMORE	United States	Y				
3466	Mesa Airlines			NULL	YV	ASH	AIR SHUTTLE	United States	Y				
3467	Mesaba Airlines			NULL	XJ	MES	MESABA	United States	Y				
3494	Midway Airlines			NULL	JI	MDW	MIDWAY	United States	Y				
3497	Midwest Airlines			NULL	YX	MEP			United States	Y			
3641	NetJets			NULL	1I	EJA	EXECJET	United States	Y				
3644	New England Airlines			NULL		EJ	NEA	NEW ENGLAND		United States	Y		

3731	Northwest Airlines	NULL	NW	NWA	NORTHWEST	United States	Y
3781	Omni Air International	NULL	OY	OAE	OMNI-EXPRESS	United States	Y
3860	Pacific Island Aviation	NULL		PSA	PACIFIC ISLE	United States	Y
3865	Pacific Wings	NULL	LW	NMI	TSUNAMI	United States	Y
3935	Peninsula Airways	NULL	KS	PEN	PENINSULA	United States	Y
3969	Piedmont Airlines (1948-1989)	NULL	PI	PDT	PIEDMONT	United States	Y
3976	Pinnacle Airlines	NULL	9E	FLG	FLAGSHIP	United States	Y
4026	Potomac Air	NULL	BK	PDC	DISTRICT	United States	Y
4187	Republic Airlines	NULL	RW	RPA	BRICKYARD	United States	Y
4294	Ryan Air Services	NULL		RYA	RYAN AIR	United States	Y
4295	Ryan International Airlines	NULL	RD	RYN	RYAN INTERNATIONAL	United States	Y
4335	Seaborne Airlines	NULL	BB	SBS	SEABORNE	United States	Y
4342	Scenic Airlines	NULL	SCE	SCENIC		United States	Y
4356	Sun Country Airlines	NULL	SY	SCX	SUN COUNTRY	United States	Y
4370	Southeast Air	NULL	SEA	SOUTHEAST AIR		United States	Y
4411	Skagway Air Service	NULL	N5	SGY	SKAGWAY AIR	United States	Y
4547	Southwest Airlines	NULL	WN	SWA	SOUTHWEST	United States	Y
4589	Skywalk Airlines	NULL	AL	SYX	SKYWAY-EX	United States	Y
4687	Spirit Airlines	NULL	NK	NKS	SPIRIT WINGS	United States	Y
4738	SkyWest	00	SKW	SKYWEST		United States	Y
4804	Southern Airways	NULL		SOU	SOUTHERN EXPRESS	United States	Y
4816	South Pacific Island Airways	NULL		SPI	SOUTH PACIFIC	United States	Y
4822	Shuttle America	NULL	S5	TCF	MERCURY	United States	Y
5160	Trans States Airlines	NULL	AX	LOF	WATERSKI	United States	Y
5207	USA3000 Airlines	NULL	U5	GWY	GETAWAY	United States	Y
5209	United Airlines	NULL	UA	UAL	UNITED	United States	Y
5265	US Airways	NULL	US	USA	U S AIR	United States	Y
5268	US Helicopter	NULL	USH	US-HELI		United States	Y
5279	United States Air Force	NULL		AIO	AIR CHIEF	United States	Y
5284	US Helicopter Corporation	NULL		UH		United States	Y
5331	Virgin America	NULL	VX	VRD	REDWOOD	United States	Y
5424	Western Airlines	NULL	WA	WAL	WESTERN	United States	Y
5465	World Airways	NULL	WO	WOA	WORLD	United States	Y
8461	Carnival Air Lines		KW	NULL	Carnival Air	United States	Y
8809	Island Air (WP)	WP	MKU			United States	Y
9833	Epic Holiday	Epic Holidays	FA	4AA	Epic	United States	Y
10123	Texas Wings	TQ	TXW	TXW		United States	Y
10226	Atifly	A1	A1F	atifly		United States	Y
10739	Air Choice One	3E	NULL			United States	Y

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10748 Locair ZQ LOC LOCAIR United States Y
10765 SeaPort Airlines K5 SQH SASQUATCH United States Y
10776 Salmon Air S6 NULL United States Y
10912 Alaska Seaplane Service J5 NULL United States Y
12961 Gryphon Airlines 6P NULL United States Y
13391 U.S. Air --+ --+ United States Y
13633 PanAm World Airways WQ PQW United States Y
15887 CBM America XBM AIRMAX United States Y
15975 Black Stallion Airways BZ BSA Stallion United States Y
16135 Yellowstone Club Private Shuttle Y1 NULL YCS United States Y
16264 Trans Pas Air T6 TP6 United States Y
16625 Papillon Grand Canyon Helicopters HI NULL United States Y
16702 Usa Sky Cargo USky E1 ES2 USKY United States Y
16726 Era Alaska 7H ERR ERAH United States Y
16735 Hankook Air US H1 HA1 United States Y
16932 Orbit Airlines Orbit OBT Orbit United States Y
17519 SENIC AIRLINES YR NULL United States Y
17563 XOJET XOJ United States Y
17628 Orbit International Airlines OAI OA United States Y
17629 Orbit Regional Airlines OAR OA United States Y
17630 Orbit Atlantic Airways OAN United States Y
17841 Aws express B0 666 aws United States Y
17859 Southjet 76 SJS United States Y
17860 Southjet connect 77 ZCS United States Y
17862 Southjet cargo 78 XAN United States Y
18169 Patriot Airways P4 NULL United States Y
18178 Vision Airlines (V2) V2 RBY RUBY United States Y
18239 Yellowtail YE YEL United States Y
18241 Royal Airways Royal Inc. KG RAW RAW United States Y
18257 Executive AirShare XSR United States Y
18529 T.J. Air TJ TJA T.J. Air United States Y
18930 Maryland Air Maryland M1 M1F Maryland Flight United States Y
19016 Apache Air Apache ZM IWA APACHE United States Y
19287 National Air Cargo N8 NCR United States Y
19290 Eastern Atlantic Virtual Airlines 13 EAV EAVA United States Y
19350 Comfort Express Virtual Charters Albany EVC Comfort Express United States Y
19351 Comfort Express Virtual Charters CEO United States Y
19433 XAIR USA XA XAU XAIR United States Y
19619 Envoy Air ENY Envoy United States Y
19674 Rainbow Air (RAI) Rainbow Air (RAI) RN RAB Rainbow Air United States Y
19676 Rainbow Air Polynesia Rainbow Air POL RX RPO Rainbow Air United States Y
19678 Rainbow Air US Rainbow Air US RM RNY Rainbow Air United States Y
19774 Spike Airlines Aero Spike S0 SAL Spike Air United States Y
19804 All America All America A2 AL2 United States Y
Time taken: 13.993 seconds, Fetched: 141 row(s)
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