```
1 /Users/gorgeousdan/Documents/projects/intellijidea/libs/spark_practice/bin/python /Users/gorgeousdan/Documents/projects/intellijidea/
  spark_practice/old_ETL_job.py
 2 Setting default log level to "WARN".
3 To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).
 4 24/12/10 12:25:08 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where
  applicable
 5 24/12/10 12:25:09 WARN SparkSession: Using an existing Spark session; only runtime SOL configurations will take effect.
 6 Restaurant data schema:
7 root
8 |-- id: long (nullable = true)
9 |-- franchise_id: integer (nullable = true)
10 |-- franchise_name: string (nullable = true)
| 11 | -- restaurant_franchise_id: integer (nullable = true)
12 |-- country: string (nullable = true)
| 13 | -- city: string (nullable = true)
| 14 |-- lat: double (nullable = true)
| 15 | -- lng: double (nullable = true)
16
17 Weather data schema:
118 root
|19 |-- lng: double (nullable = true)
|20 |-- lat: double (nullable = true)
|21 |-- avg_tmpr_f: double (nullable = true)
|22 |-- avg_tmpr_c: double (nullable = true)
23 |-- wthr_date: string (nullable = true)
24
25 Sample restaurant data:
|26 +-----
           id|franchise id| franchise name|restaurant franchise id|country|
28 +-----
                      10|The Golden Spoon|
29 | 197568495625 |
                                                      24784
                                                               US| Decatur|34.578|-87.021|
30 | 17179869242|
                      591 Azalea Cafel
                                                     10902l
                                                                     Paris|48.861| 2.368|
31 |214748364826|
                      27| The Corner Cafel
                                                     92040 l
                                                               US|Rapid City| 44.08|-103.25|
32 | 154618822706 |
                      51| The Pizzerial
                                                     41484|
                                                               AT| Vienna|48.213| 16.413|
33 | 163208757312 |
                      651 Chef's Cornerl
                                                     966381
                                                               GB| London|51.495| -0.191|
34 +-----
35 only showing top 5 rows
37 Sample weather data:
|38 +-----
39 | lng| lat|avg_tmpr_f|avg_tmpr_c| wthr_date|
40 +-----
41 | -111.09|18.6251|
                      80.71
                               27.1|2017-08-29|
```

```
42 |-111.042|18.6305|
                      80.71
                               27.1 | 2017 - 08 - 29 |
43 |-110.995|18.6358|
                      80.7
                               27.1 | 2017 - 08 - 29 |
44 |-110.947|18.6412|
                      80.91
                               27.2 | 2017 - 08 - 29 |
45 | -110.9|18.6465|
                      80.91
                               27.2|2017-08-29|
46 +-----
47 only showing top 5 rows
48
49 Rows with invalid coordinates:
56 +----
           id|franchise id|franchise name|restaurant franchise id|country| city| lat| lng|
52 +-----
53 | 85899345920 |
                      11
                              Savorial
                                                  18952|
                                                            USIDillon|NULL|NULL|
54 +-----
56 Checking coordinates for city: Dillon, US...
57 API response: lat=34.4014089, lng=-79.3864339
58 Restaurant data with geohashes:
59 +-----
           id|franchise_id|
60 I
                              franchise name/restaurant franchise id/country/
                                                                             city| lat| lng|geohash|
|61 +-----
62 | 197568495625 |
                      10 l
                            The Golden Spoon
                                                         247841
                                                                  USI
                                                                          Decatur | 34.578 | -87.021 |
                                                                                                dn4h1
63 | 17179869242|
                      59 l
                                Azalea Cafe|
                                                         10902
                                                                  FRI
                                                                            Paris | 48.861 | 2.368 |
                                                                                                u09tl
64 |214748364826|
                      27 l
                            The Corner Cafel
                                                                  USI
                                                                        Rapid Cityl 44.081-103.251
                                                         92040
                                                                                                9xvdl
65 | 154618822706 |
                      51 l
                               The Pizzeria
                                                         41484
                                                                  ATI
                                                                           Vienna | 48.213 | 16.413 |
                                                                                                u2edl
66 | 163208757312 |
                                                         96638
                      65
                              Chef's Corner
                                                                  GBI
                                                                           London | 51.495 | -0.191 |
                                                                                                qcpul
67 | 68719476763|
                      28 l
                            The Spicy Pickle
                                                         77517
                                                                  USI
                                                                          Grayling | 44.657 | -84.744 |
                                                                                                dpqw
68 | 223338299419 |
                      28 |
                            The Spicy Pickle
                                                         36937
                                                                  USI
                                                                           Oswego | 43.452 | -76.532 |
                                                                                                dr9x|
69 | 240518168650 |
                      75 l
                                                                  NLI
                                                                         Amsterdam | 52.37 | 4.897 |
                             Greenhouse Cafel
                                                         93164
                                                                                                υ173|
|70 |128849018936|
                      57|The Yellow Submarine|
                                                          5679
                                                                                                u09w1
                                                                            Paris|48.872| 2.335|
71 | 197568495635 |
                      201
                              The Brasseriel
                                                         247841
                                                                  US|Jeffersonville|39.616|-83.612|
                                                                                                dph91
72 | 68719476768|
                      33 l
                           The Blue Elephant|
                                                         77517
                                                                  ITI
                                                                            Milan | 45.479 | 9.146 |
                                                                                                υ0ndl
|73 | 51539607582|
                      31 l
                                  Bistro 421
                                                          6934
                                                                  ITI
                                                                            Milan 45.444 | 9.153|
                                                                                                υ0nd l
74 | 94489280554|
                      431
                             The Food Housel
                                                         953991
                                                                  FRI
                                                                            Paris|48.867| 2.329|
                                                                                                u09tl
75 | 206158430215 |
                       81
                             The Green Olivel
                                                         53370 l
                                                                  USI
                                                                       Haltom City | 32.789 | -97.28 |
                                                                                                9vffl
76 | 154618822657 |
                                                                  USI
                               Bella Cucinal
                                                         414841
                                                                       Fort Pierce | 27.412 | -80.391 |
                                                                                                dhyq
77 | 17179869217|
                      34 l
                             The Tasty Treat
                                                         10902
                                                                  USI
                                                                         Green Bay 44.476 -88.077
                                                                                                dpcm
78 | 8589934633|
                      42|
                             The Daily Scoop
                                                         12630
                                                                  FRI
                                                                            Paris | 48.854 | 2.343 |
                                                                                                u09t|
79 |240518168596|
                      21|
                             The Lazy Daisy
                                                         93164
                                                                  USI
                                                                        Mendenhall 39.86 - 75.646
                                                                                                dr44|
80 |171798691906|
                      67| Crimson and Clover|
                                                         65939
                                                                  NLI
                                                                         Amsterdam|52.361| 4.894|
                                                                                                u173 l
81 | 42949673022|
                      63|
                                 Cafe Paris|
                                                         89646
                                                                  GBI
                                                                           London|51.508| -0.107|
                                                                                                qcpvl
82 +-----
83 only showing top 20 rows
84
```

```
85 Weather data with geohashes:
 86 +------+
 87 | lng| lat|avg_tmpr_f|avg_tmpr_c| wthr_date|qeohash|
 88 +-----
 89 | -111.09|18.6251|
                      80.71
                               27.1|2017-08-29|
                                               9e31|
 90 |-111.042|18.6305|
                      80.71
                               27.1|2017-08-29|
                                               9e31|
 91 |-110.995|18.6358|
                      80.7l
                               27.1|2017-08-29|
                                               9e34
 92 |-110.947|18.6412|
                      80.91
                               27.2|2017-08-29|
                                               9e34|
 93 | -110.9|18.6465|
                      80.91
                               27.2|2017-08-29|
                                               9e341
                      80.91
                                               9e341
 94 |-110.852|18.6518|
                               27.2|2017-08-29|
                               27.2|2017-08-29|
 95 |-110.804|18.6571|
                      80.91
                                               9e341
 96 |-105.068|19.1765|
                      82.4
                               28.0|2017-08-29|
                                               9emm|
 97 | -105.02|19.1799|
                      82.0|
                               27.8 | 2017 - 08 - 29 |
                                               9emml
                               27.8 | 2017 - 08 - 29 |
 98 |-104.972|19.1832|
                      82.0|
                                               9emml
99 |-104.924|19.1866|
                      82.0|
                               27.8|2017-08-29|
                                               9emm|
100 |-104.876|19.1899|
                      82.0|
                               27.8|2017-08-29|
                                               9emm|
                               27.6|2017-08-29|
101 |-104.828|19.1932|
                      81.6
                                               9emm|
102 | -104.78|19.1964|
                      81.6
                               27.6|2017-08-29|
                                               9emm|
                      81.6
103 |-104.732|19.1997|
                               27.6|2017-08-29|
                                               9emtl
104 |-104.684| 19.203|
                      77.81
                               25.4|2017-08-29|
                                               9emtl
105 |-104.636|19.2062|
                      77.8
                               25.4|2017-08-29|
                                               9emtl
                            24.0|2017-08-29|
106 |-104.588|19.2094|
                      75.2
                                               9emt|
107 | -104.54|19.2126|
                      75.2l
                            24.0|2017-08-29|
                                               9emtl
108 |-104.492|19.2158|
                      75.2
                               24.0|2017-08-29|
                                               9emtl
110 only showing top 20 rows
111
112 Sample of joined data:
113 Checking coordinates for city: Dillon, US...
114 API response: lat=34.4014089, lng=-79.3864339
|115 24/12/10 12:25:19 WARN GarbageCollectionMetrics: To enable non-built-in garbage collector(s) List(G1 Concurrent GC), users should
   configure it(them) to spark.eventLog.gcMetrics.voungGenerationGarbageCollectors or spark.eventLog.gcMetrics.
   oldGenerationGarbageCollectors
----+
117 |qeohash|id
                  |franchise_id|franchise_name |restaurant_franchise_id|country|city |lat |lnq |avq_tmpr_f|avq_tmpr_c|
   wthr_date |
| 119 | dngx | | 103079215121|18
                        |The Harvest Room |4340
                                                                lus
                                                                       |Mount Airy|36.481|-80.602 |66.4
                                                                                                     119.1
   2017-08-29|
120 | 9r13 | 214748364814|15
                        |The Pearl Kitchen|92040
                                                                lus
                                                                                                     126.4
                                                                       lChico
                                                                               |39.726|-121.837|79.6
   2017-09-10|
```

## File - Mamenov Daniyar old ETL job

File - Mamer	nov Daniyar old_ETL_job									
121  9y7\		The Rustic	Table	4340	US	Tulsa	36.168 -95.851	74.6	23.7	
	-08-29									
122  dn4h		The Golden	Spoon	24784	IUS	Decatur	34.578 -87.021	66.5	19.2	l
	-09-10									
	v  171798691900 61	Blue Water	Bistro	1   65939	GB	London	51.519 -0.087	59.8	15.4	l
	-08-13									
	· ·	-+		+		+	+	-+	+	+
	+									
125 only 126	showing top 5 rows									
127 Check	king coordinates for city: Di	llon, US								
128 API r	response: lat=34.4014089, lng:	-79.3864339								
129 Joine	ed data saved at /Users/gorged	ousdan/Docum	ents/pr	ojects/intell	ijidea/spark_pr	actice/enric	hed_data.parquet			
130 Runni	ing validation tests									
131 Check	king coordinates for city: Di	llon, US								
132 API r	response: lat=34.4014089, lng:	=-79.3864339								
133 Check	king coordinates for city: Di	llon, US								
134 API r	response: lat=34.4014089, lng:	=-79.3864339								
	king coordinates for city: Di									
136 API r	response: lat=34.4014089, lng:	=-79.3864339								
137 Check	king coordinates for city: Di	llon, US								
138 API r	response: lat=34.4014089, lng:	=-79.3864339								
139 All t	tests passed!									
140										
	ess finished with exit code O									
142										