```
b. 26216
   c. 238
   d. 125861
   e. LGA, DCA, LAX, MSP, ATL
   f. ATL
[>>> spark.sql("select count(*) from january_data").show()
|count(1)|
583985
[>>> spark.sql("select count(*) from january_data where ORIGIN = 'ORD' and dest = 'JFK'").show()
  File "<stdin>", line 1
    spark.sql("select count(*) from january_data where ORIGIN = 'ORD' and dest = 'JFK'").show()
SyntaxError: invalid character in identifier
[>>> spark.sql("select count(*) from january_data where ORIGIN = 'ORD' and dest = 'JFK'").show()
|count(1)|
    238|
[>>> spark.sql("select count(*) from january_data where ORIGIN = 'ORD'").show()
|count(1)|
26216
[>>> spark.sql("select count(*) from january_data where DEP_DEL15 = '1'").show()
|count(1)|
989271
[>>> spark.sql("select count(*) from january_data where ARR_DEL15 = '1'").show()
|count(1)|
1052221
[>>> spark.sql("select count(*) from january_data where ARR_DEL15 = '1' or DEP_DEL15 = '1'").show()
|count(1)|
125861
```

a. 583985

[>>> spark.sql("select origin, dest, count(*) as NumFlights from january_data jd where origin = 'ORD' GROUP BY ORIGIN, DEST ORDER BY NumFlights desc limit 10").show()

origin dest NumFlights		
++	+	+
ORD	LGA	1230
ORD	DCA	657
ORD	LAX	648
ORD	MSP	623
ORD	ATL	621
ORD	DFW	567
ORD	DTW	525
ORD	BOS	496
ORD	PHX	491
ORD	DEN	479

[>>> spark.sql("select origin, count(cancelled) as NumCancels from january_data jd GROUP BY ORIGIN ORDER BY NumCancels desc limit 5").show()

origin	NumCancels
ATL ORD DFW CLT DEN	26216 23063 19100