```
hive> CREATE TABLE flight_info_staging(
    > FL_NUM INT,
    > ORIGIN_AIRPORT_ID INT,
    > ORIGIN STRING,
    > DEST_AIRPORT_ID INT,
    > DEST STRING,
    > DEP_TIME INT,
    > DEP_DELAY INT,
    > ARR_TIME INT,
    > ARR_DELAY INT
    > )
    > ROW FORMAT DELIMITED FIELDS TERMINATED BY ','
    > tblproperties ("skip.header.line.count"="1");
OK
Time taken: 0.143 seconds

hive> LOAD DATA LOCAL INPATH
    > '/home/akansha/flightdata.csv'
    > INTO TABLE flight_info_staging;
Loading data to table flight_info_system.flight_info_staging
OK
Time taken: 0.58 seconds




hive> CREATE TABLE flight_info (
    > FL_NUM INT,
    > ORIGIN_AIRPORT_ID INT,
    > ORIGIN STRING,
    > DEST_AIRPORT_ID INT,
    > DEST STRING,
    > DEP_TIME INT,
    > DEP_DELAY INT,
    > ARR_TIME INT,
    > ARR_DELAY INT
    > )
    > STORED AS ORC;
OK
Time taken: 0.091 seconds
hive> INSERT INTO TABLE flight_info SELECT * FROM flight_info_staging;
Query ID = akansha_20230528050857_b88265d4-fe0c-49b0-ac8e-c0f7d23ab222
Total jobs = 1
Launching Job 1 out of 1
Number of reduce tasks determined at compile time: 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_1685219240726_0010, Tracking URL =
http://akansha-VirtualBox:8088/proxy/application_1685219240726_0010/
Kill Command = /home/akansha/hadoop-3.2.4/bin/mapred job -kill
job_1685219240726_0010
Hadoop job information for Stage-1: number of mappers: 1; number of reducers: 1
2023-05-28 05:09:09,638 Stage-1 map = 0%, reduce = 0%
2023-05-28 05:09:14,938 Stage-1 map = 100%, reduce = 0%, Cumulative CPU 3.71 sec
2023-05-28 05:09:20,188 Stage-1 map = 100%, reduce = 100%, Cumulative CPU 5.25 sec
MapReduce Total cumulative CPU time: 5 seconds 250 msec
Ended Job = job_1685219240726_0010
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 directory
hdfs://localhost:9000/user/hive/warehouse/flight_info_system.db/flight_info/.hive-staging_hiv
e_2023-05-28_05-08-57_810_2189922168505621243-1/-ext-10000
Loading data to table flight_info_system.flight_info
MapReduce Jobs Launched:
Stage-Stage-1: Map: 1 Reduce: 1   Cumulative CPU: 5.25 sec   HDFS Read: 496804 HDFS
Write: 70534 SUCCESS
Total MapReduce CPU Time Spent: 5 seconds 250 msec
OK
Time taken: 24.157 seconds
hive> DROP TABLE flight_info_staging;
OK
Time taken: 0.192 seconds
hive>

hive> select count(*) from flight_info;
OK
11231
Time taken: 0.541 seconds, Fetched: 1 row(s)
hive>

hive> CREATE INDEX idx_dep_delay ON TABLE flight_info (DEP_DELAY);
NoViableAltException(152@[917:1: ddlStatement : (createDatabaseStatement |
switchDatabaseStatement | dropDatabaseStatement | createTableStatement |
dropTableStatement | truncateTableStatement | alterStatement | descStatement |
showStatement | metastoreCheck | createViewStatement | createMaterializedViewStatement
| dropViewStatement | dropMaterializedViewStatement | createFunctionStatement |
createMacroStatement | dropFunctionStatement | reloadFunctionStatement |
dropMacroStatement | analyzeStatement | lockStatement | unlockStatement | lockDatabase |
unlockDatabase | createRoleStatement | dropRoleStatement | (grantPrivileges)=>
grantPrivileges | (revokePrivileges)=> revokePrivileges | showGrants | showRoleGrants |
showRolePrincipals | showRoles | grantRole | revokeRole | setRole | showCurrentRole |
abortTransactionStatement | killQueryStatement | resourcePlanDdlStatements);])

```
    at org.antlr.runtime.DFA.noViableAlt(DFA.java:158)
    at org.antlr.runtime.DFA.predict(DFA.java:116)
    at org.apache.hadoop.hive.ql.parse.HiveParser.ddlStatement(HiveParser.java:4244)
    at org.apache.hadoop.hive.ql.parse.HiveParser.execStatement(HiveParser.java:2494)
    at org.apache.hadoop.hive.ql.parse.HiveParser.statement(HiveParser.java:1420)
    at org.apache.hadoop.hive.ql.parse.ParseDriver.parse(ParseDriver.java:220)
    at org.apache.hadoop.hive.ql.parse.ParseUtils.parse(ParseUtils.java:74)
    at org.apache.hadoop.hive.ql.parse.ParseUtils.parse(ParseUtils.java:67)
    at org.apache.hadoop.hive.ql.Driver.compile(Driver.java:616)
    at org.apache.hadoop.hive.ql.Driver.compileInternal(Driver.java:1826)
    at org.apache.hadoop.hive.ql.Driver.compileAndRespond(Driver.java:1773)
    at org.apache.hadoop.hive.ql.Driver.compileAndRespond(Driver.java:1768)
    at
org.apache.hadoop.hive.ql.reexec.ReExecDriver.compileAndRespond(ReExecDriver.java:12
6)
    at org.apache.hadoop.hive.ql.reexec.ReExecDriver.run(ReExecDriver.java:214)
    at org.apache.hadoop.hive.cli.CliDriver.processLocalCmd(CliDriver.java:239)
    at org.apache.hadoop.hive.cli.CliDriver.processCmd(CliDriver.java:188)
    at org.apache.hadoop.hive.cli.CliDriver.processLine(CliDriver.java:402)
    at org.apache.hadoop.hive.cli.CliDriver.executeDriver(CliDriver.java:821)
    at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:759)
    at org.apache.hadoop.hive.cli.CliDriver.main(CliDriver.java:683)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.apache.hadoop.util.RunJar.run(RunJar.java:323)
    at org.apache.hadoop.util.RunJar.main(RunJar.java:236)
```

FAILED: ParseException line 1:7 cannot recognize input near 'CREATE' 'INDEX' 'idx_dep_delay' in ddl statement
hive>

hive> CREATE INDEX idx_dep_delay ON TABLE flight_info (DEP_DELAY) AS 'org.apache.hadoop.hive.ql.index.compact.CompactIndexHandler';
NoViableAltException(152@[917:1: ddlStatement : (createDatabaseStatement | switchDatabaseStatement | dropDatabaseStatement | createTableStatement | dropTableStatement | truncateTableStatement | alterStatement | descStatement | showStatement | metastoreCheck | createViewStatement | createMaterializedViewStatement | dropViewStatement | dropMaterializedViewStatement | createFunctionStatement | createMacroStatement | dropFunctionStatement | reloadFunctionStatement | dropMacroStatement | analyzeStatement | lockStatement | unlockStatement | lockDatabase | unlockDatabase | createRoleStatement | dropRoleStatement | (grantPrivileges)=> grantPrivileges | (revokePrivileges)=> revokePrivileges | showGrants | showRoleGrants | showRolePrincipals | showRoles | grantRole | revokeRole | setRole | showCurrentRole | abortTransactionStatement | killQueryStatement | resourcePlanDdlStatements);])

```
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    at org.antlr.runtime.DFA.predict(DFA.java:116)
```

```
        at org.apache.hadoop.hive.ql.parse.HiveParser.ddlStatement(HiveParser.java:4244)
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        at org.apache.hadoop.hive.ql.parse.ParseDriver.parse(ParseDriver.java:220)
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        at org.apache.hadoop.hive.ql.Driver.compileAndRespond(Driver.java:1773)
        at org.apache.hadoop.hive.ql.Driver.compileAndRespond(Driver.java:1768)
        at
org.apache.hadoop.hive.ql.reexec.ReExecDriver.compileAndRespond(ReExecDriver.java:12
6)
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        at org.apache.hadoop.hive.cli.CliDriver.processLocalCmd(CliDriver.java:239)
        at org.apache.hadoop.hive.cli.CliDriver.processCmd(CliDriver.java:188)
        at org.apache.hadoop.hive.cli.CliDriver.processLine(CliDriver.java:402)
        at org.apache.hadoop.hive.cli.CliDriver.executeDriver(CliDriver.java:821)
        at org.apache.hadoop.hive.cli.CliDriver.run(CliDriver.java:759)
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        at org.apache.hadoop.util.RunJar.run(RunJar.java:323)
        at org.apache.hadoop.util.RunJar.main(RunJar.java:236)
FAILED: ParseException line 1:7 cannot recognize input near 'CREATE' 'INDEX'
'idx_dep_delay' in ddl statement
```