```
# $ sudo lsb_release -d
#   Description:    Ubuntu 15.10
#
# $ sudo cat /proc/cpuinfo | grep model\ name
#   model name    : Intel(R) Pentium(R) CPU 2020M @ 2.40GHz
#   model name    : Intel(R) Pentium(R) CPU 2020M @ 2.40GHz
#
# $ sudo free -h
#               total       used       free     shared    buffers     cached
#   Mem:          3.7G       3.4G       338M       278M        46M       2.5G
#   -/+ buffers/cache:        934M       2.8G
#   Swap:         1.9G       955M       952M
#
# $ sudo lshw -short -class disk | grep sda
#   /0/2/0.0.0      /dev/sda    disk          500GB Hitachi HTS54505
#
# $ mysql -u root -p --local-infile

# Q-1 - Import the datasets.

SHOW DATABASES;
USE assignments;
CREATE TABLE ontime (
        Year INT, Month INT, DayOfMonth INT, DayOfWeek INT, DepTime INT,
        CRSDepTime INT, ArrTime INT, CRSArrTime INT, UniqueCarrier VARCHAR(5),
        FlightNum INT, TailNum VARCHAR(8), ActualElapsedTime INT, CRSElapsedTime INT,
        AirTime INT, ArrDelay INT, DepDelay INT, Origin VARCHAR(3), Dest VARCHAR(3),
        Distance INT, TaxiIn INT, TaxiOut INT, Cancelled INT, CancellationCode VARCHAR(1),
        Diverted VARCHAR(1), CarrierDelay INT, WeatherDelay INT, NASDelay INT,
        SecurityDelay INT, LateAircraftDelay INT
);
SHOW FULL COLUMNS FROM ontime;
LOAD DATA LOCAL INFILE '/tmp/2004.csv'
        INTO TABLE ontime
        FIELDS TERMINATED BY ','
        LINES TERMINATED BY '\n'
        IGNORE 1 LINES;
-- Query OK, 7129270 rows affected, 65535 warnings (3 min 7.46 sec)
-- Records: 7129270  Deleted: 0  Skipped: 0  Warnings: 821678
SHOW WARNINGS LIMIT 10;
LOAD DATA LOCAL INFILE '/tmp/2005.csv'
        INTO TABLE ontime
        FIELDS TERMINATED BY ','
        LINES TERMINATED BY '\n'
        IGNORE 1 LINES;
-- Query OK, 7140596 rows affected, 65535 warnings (3 min 10.90 sec)
-- Records: 7140596  Deleted: 0  Skipped: 0  Warnings: 858492
SHOW WARNINGS LIMIT 10;
LOAD DATA LOCAL INFILE '/tmp/2006.csv'
        INTO TABLE ontime
        FIELDS TERMINATED BY ','
        LINES TERMINATED BY '\n'
        IGNORE 1 LINES;
-- Query OK, 7141922 rows affected, 65535 warnings (3 min 12.79 sec)
-- Records: 7141922  Deleted: 0  Skipped: 0  Warnings: 796352
SHOW WARNINGS LIMIT 10;
```

```sql
LOAD DATA LOCAL INFILE '/tmp/2007.csv'
        INTO TABLE ontime
        FIELDS TERMINATED BY ','
        LINES TERMINATED BY '\n'
        IGNORE 1 LINES;
-- Query OK, 7453215 rows affected, 65535 warnings (3 min 22.57 sec)
-- Records: 7453215  Deleted: 0  Skipped: 0  Warnings: 1034198
SHOW WARNINGS LIMIT 10;
LOAD DATA LOCAL INFILE '/tmp/2008.csv'
        INTO TABLE ontime
        FIELDS TERMINATED BY ','
        LINES TERMINATED BY '\n'
        IGNORE 1 LINES;
-- Query OK, 7009728 rows affected, 65535 warnings (3 min 25.98 sec)
-- Records: 7009728  Deleted: 0  Skipped: 0  Warnings: 28602754
SHOW WARNINGS LIMIT 10;
ALTER TABLE ontime ADD INDEX Year (Year);
-- Query OK, 0 rows affected (5 min 30.55 sec)
-- Records: 0  Duplicates: 0  Warnings: 0
ALTER TABLE ontime ADD INDEX Date (Year, Month, DayofMonth);
-- Query OK, 0 rows affected (9 min 18.92 sec)
-- Records: 0  Duplicates: 0  Warnings: 0
ALTER TABLE ontime ADD INDEX Origin (Origin);
-- Query OK, 0 rows affected (6 min 7.66 sec)
-- Records: 0  Duplicates: 0  Warnings: 0
ALTER TABLE ontime ADD INDEX Dest (Dest);
-- Query OK, 0 rows affected (6 min 38.85 sec)
-- Records: 0  Duplicates: 0  Warnings: 0
CREATE TABLE plane (
        TailNum VARCHAR(7), Type VARCHAR(19), Manufacturer VARCHAR(30), IssueDate DATE,
        Model VARCHAR(17), Status VARCHAR(17), AircraftType VARCHAR(24),
        EngineType VARCHAR(13), Year INT
);
SHOW FULL COLUMNS FROM plane;
LOAD DATA LOCAL INFILE '/tmp/plane-data.csv'
        INTO TABLE plane
        FIELDS TERMINATED BY ','
        LINES TERMINATED BY '\n'
        IGNORE 1 LINES
        (TailNum, Type, Manufacturer, @var, Model, Status, AircraftType, EngineType, Year)
        SET IssueDate = STR_TO_DATE(@var, '%m/%d/%Y');
-- Query OK, 5029 rows affected, 3989 warnings (1.66 sec)
-- Records: 5029  Deleted: 0  Skipped: 0  Warnings: 3989
SHOW WARNINGS LIMIT 10;
CREATE TABLE airport (
        Iata VARCHAR(4), Airport VARCHAR(41), City VARCHAR(33), State VARCHAR(2),
        Country VARCHAR(30), Lat NUMERIC(11, 8), Lon NUMERIC(12, 8)
);
SHOW FULL COLUMNS FROM airport;
LOAD DATA LOCAL INFILE '/tmp/airports.csv'
        INTO TABLE airport
        FIELDS TERMINATED BY ',' OPTIONALLY ENCLOSED BY '"'
        LINES TERMINATED BY '\n'
        IGNORE 1 LINES;
-- Query OK, 3376 rows affected (0.78 sec)
-- Records: 3376  Deleted: 0  Skipped: 0  Warnings: 0

# Q0 - How many records are in the dataset?
```

```sql
SELECT COUNT(*) FROM ontime;
-- +----------+
-- | COUNT(*) |
-- +----------+
-- | 35874731 |
-- +----------+
-- 1 row in set (15.29 sec)

# Q1 - Please list the number of all different routes (origin -> destination)
#       and contain "DISTINCT" syntax in the usage of SQL.

SELECT COUNT(*) FROM (SELECT DISTINCT Origin, Dest FROM ontime) AS temp;
-- +----------+
-- | COUNT(*) |
-- +----------+
-- |     6901 |
-- +----------+
-- 1 row in set (2 min 1.59 sec)

# Q2 - Please list the number of flights whose destination is JFK
#       and the actual flight time is between 1 to 3 hours
#       and contain "BETWEEN" syntax in the usage of SQL.

SELECT COUNT(*) FROM ontime WHERE
        Dest = 'JFK' AND (ActualElapsedTime BETWEEN 1*60 AND 3*60);
-- +----------+
-- | COUNT(*) |
-- +----------+
-- |   303868 |
-- +----------+
-- 1 row in set (36.54 sec)

# Q3 - Please list both the aircraft type names and the amounts
#       whose aircraft type name begins with "737"
#       and contain "LIKE" syntax in the usage of SQL.

SELECT Model, COUNT(Model) FROM plane WHERE Model LIKE '737%' GROUP BY Model;
-- +-----------+--------------+
-- | Model     | COUNT(Model) |
-- +-----------+--------------+
-- | 737-230   |            1 |
-- | 737-236   |            4 |
-- | 737-282   |            1 |
-- | 737-282C  |            1 |
-- | 737-2P6   |            1 |
-- | 737-2X6C  |            1 |
-- | 737-2Y5   |            1 |
-- | 737-301   |            7 |
-- | 737-317   |            4 |
-- | 737-322   |           64 |
-- | 737-33A   |            4 |
-- | 737-3A4   |            9 |
-- | 737-3B7   |           16 |
-- | 737-3G7   |           20 |
-- | 737-3H4   |          147 |
-- | 737-3K2   |            2 |
-- | 737-3L9   |            2 |
```

```
-- | 737-3Q8  |            9 |
-- | 737-3S3  |            4 |
-- | 737-3T5  |            3 |
-- | 737-3TO  |           50 |
-- | 737-3Y0  |            6 |
-- | 737-401  |           13 |
-- | 737-490  |           16 |
-- | 737-4B7  |           27 |
-- | 737-4Q8  |           22 |
-- | 737-4S3  |            1 |
-- | 737-522  |           30 |
-- | 737-524  |           56 |
-- | 737-5H4  |           25 |
-- | 737-705  |            1 |
-- | 737-724  |           36 |
-- | 737-73A  |            2 |
-- | 737-76N  |           27 |
-- | 737-76Q  |            2 |
-- | 737-790  |           19 |
-- | 737-7AD  |            1 |
-- | 737-7BD  |           32 |
-- | 737-7H4  |          308 |
-- | 737-7Q8  |            2 |
-- | 737-824  |          100 |
-- | 737-832  |           68 |
-- | 737-890  |           33 |
-- | 737-8FH  |            1 |
-- | 737-924  |           12 |
-- | 737-924ER |           8 |
-- | 737-990  |           12 |
-- +-----------+--------------+
-- 47 rows in set (0.00 sec)

# Q4 - Please list the average speed (using the actual arrival time)
#       of all aircraft types and contain "AVG" in the usage of SQL.
#
# The data are too huge for my computer to process.
# I had executed this query for more than 30 minutes
# and the system resources were almost used up.

ALTER TABLE ontime ADD INDEX TailNum (TailNum);
-- Query OK, 0 rows affected (7 min 27.65 sec)
-- Records: 0  Duplicates: 0  Warnings: 0
ALTER TABLE plane ADD INDEX TailNum (TailNum);
-- Query OK, 0 rows affected (0.76 sec)
-- Records: 0  Duplicates: 0  Warnings: 0
SELECT plane.Model, AVG(ontime.Distance/ontime.ActualElapsedTime*60) AS AvgSpeed
        FROM plane INNER JOIN ontime ON plane.TailNum = ontime.TailNum
        GROUP BY plane.Model;
-- ^CCtrl-C -- sending "KILL QUERY 5" to server ...
-- Ctrl-C -- query aborted.
-- ERROR 1317 (70100): Query execution was interrupted

# Q5 - Please list the top 50 timezone counts and routes (origin -> destination)
#      by the timezone count of routes (assume one timezone is formed by 15 degree
#      longitude and is not related to countries) in decreasing order
#      and contain "ORDER BY" in the usage of SQL.
```

```sql
SELECT DISTINCT
        FLOOR(ABS(temp1.Lon-temp2.Lon)/15) AS Timezone, ontime.Origin, ontime.Dest
        FROM ontime
        INNER JOIN airport AS temp1 ON ontime.Origin = temp1.Iata
        INNER JOIN airport AS temp2 ON ontime.Dest = temp2.Iata
        ORDER BY Timezone DESC, ontime.Origin ASC, ontime.Dest ASC
        LIMIT 0, 50;
-- ^CCtrl-C -- sending "KILL QUERY 5" to server ...
-- Ctrl-C -- query aborted.
-- ERROR 1317 (70100): Query execution was interrupted
SELECT FLOOR(ABS(temp1.Lon-temp2.Lon)/15) AS Timezone, temp0.Origin, temp0.Dest
        FROM (SELECT DISTINCT Origin, Dest FROM ontime) AS temp0
        INNER JOIN (SELECT Iata, Lon FROM airport) AS temp1 ON temp0.Origin = temp1.Iata
        INNER JOIN (SELECT Iata, Lon FROM airport) AS temp2 ON temp0.Dest = temp2.Iata
        ORDER BY Timezone DESC, temp0.Origin ASC, temp0.Dest ASC
        LIMIT 0, 50;
-- +----------+--------+------+
-- | Timezone | Origin | Dest |
-- +----------+--------+------+
-- |        5 | EWR    | HNL  |
-- |        5 | HNL    | EWR  |
-- |        4 | ANC    | ATL  |
-- |        4 | ANC    | CVG  |
-- |        4 | ANC    | DTW  |
-- |        4 | ANC    | ORD  |
-- |        4 | ATL    | ANC  |
-- |        4 | ATL    | HNL  |
-- |        4 | ATL    | OGG  |
-- |        4 | CVG    | ANC  |
-- |        4 | CVG    | HNL  |
-- |        4 | DFW    | HNL  |
-- |        4 | DTW    | ANC  |
-- |        4 | DTW    | HNL  |
-- |        4 | HNL    | ATL  |
-- |        4 | HNL    | CVG  |
-- |        4 | HNL    | DFW  |
-- |        4 | HNL    | DTW  |
-- |        4 | HNL    | IAH  |
-- |        4 | HNL    | MSP  |
-- |        4 | HNL    | ORD  |
-- |        4 | IAH    | HNL  |
-- |        4 | IAH    | OGG  |
-- |        4 | KOA    | ORD  |
-- |        4 | MSP    | HNL  |
-- |        4 | OGG    | ATL  |
-- |        4 | OGG    | IAH  |
-- |        4 | OGG    | ORD  |
-- |        4 | ORD    | ANC  |
-- |        4 | ORD    | HNL  |
-- |        4 | ORD    | OGG  |
-- |        3 | ANC    | DEN  |
-- |        3 | ANC    | DFW  |
-- |        3 | ANC    | IAH  |
-- |        3 | ANC    | MSP  |
-- |        3 | BDL    | LAX  |
-- |        3 | BOS    | LAX  |
-- |        3 | BOS    | LGB  |
```

```
-- |          3 | BOS     | OAK  |
-- |          3 | BOS     | ONT  |
-- |          3 | BOS     | PDX  |
-- |          3 | BOS     | SAN  |
-- |          3 | BOS     | SEA  |
-- |          3 | BOS     | SFO  |
-- |          3 | BOS     | SJC  |
-- |          3 | BWI     | OAK  |
-- |          3 | BWI     | SEA  |
-- |          3 | BWI     | SFO  |
-- |          3 | BWI     | SJC  |
-- |          3 | DCA     | SEA  |
-- +----------+--------+------+
-- 50 rows in set (1 min 47.67 sec)

# Q6 - Please list the aircraft types which never appeared after 2008 (appeared before)
#        and contain "NOT IN" syntax in the usage of SQL.
#
# Please note that not all plane data are in the "plane" table.
# So it is possible to receive nothing
# when we tries to find out their aircraft type names.

SELECT DISTINCT plane.Model FROM plane
        INNER JOIN ontime ON plane.TailNum = ontime.TailNum
        WHERE plane.Model NOT IN (
                SELECT DISTINCT plane.Model FROM plane
                INNER JOIN ontime ON plane.TailNum = ontime.TailNum
                WHERE ontime.Year >= 2008
        );
-- ^CCtrl-C -- sending "KILL QUERY 5" to server ...
-- Ctrl-C -- query aborted.
-- ERROR 1317 (70100): Query execution was interrupted
SELECT DISTINCT Model FROM plane WHERE TailNum IN (
        SELECT DISTINCT TailNum FROM ontime WHERE TailNum NOT IN (
                SELECT DISTINCT TailNum FROM ontime WHERE Year >= 2008
        )
);
-- Empty set (1 min 55.69 sec)

# Q7 - Please list the manufacturers whose airplanes' delay times
#        are more than half an hour.
#
# The data are too huge for my computer to process.
# I had executed this query for more than 30 minutes
# and the system resources were almost used up.

SELECT plane.Manufacturer, AVG(ontime.ArrDelay)
        FROM plane INNER JOIN ontime ON plane.TailNum = ontime.TailNum
        GROUP BY plane.Manufacturer
        HAVING AVG(ontime.ArrDelay) > 30;
-- ^CCtrl-C -- sending "KILL QUERY 5" to server ...
-- Ctrl-C -- query aborted.
-- ERROR 1317 (70100): Query execution was interrupted
SELECT Manufacturer FROM (
        SELECT Manufacturer, AVG(ontime.ArrDelay) AS AvgArrDelay
        FROM plane FORCE INDEX (TailNum)
        INNER JOIN ontime FORCE INDEX (TailNum) ON plane.TailNum = ontime.TailNum
```

```sql
        GROUP BY Manufacturer
) AS temp WHERE AvgArrDelay > 30;
-- ^CCtrl-C -- sending "KILL QUERY 3" to server ...
-- Ctrl-C -- query aborted.
-- ERROR 1317 (70100): Query execution was interrupted

SELECT Manufacturer FROM (
        SELECT Manufacturer, AVG(ontime.ArrDelay) AS AvgArrDelay
        FROM plane INNER JOIN ontime ON plane.TailNum = ontime.TailNum
        GROUP BY Manufacturer
) AS temp WHERE AvgArrDelay > 30;
-- ^CCtrl-C -- sending "KILL QUERY 3" to server ...
-- Ctrl-C -- query aborted.
-- ERROR 1317 (70100): Query execution was interrupted

# Q8 - Please list the average delay time of a week (7 days) and
#       a day (24 hours), and when is the best time to fly
#       (having the minimum delay).
#
# The best day is Saturday (day 6) and the best hour is 5 o'clock.

SELECT DayOfWeek, AVG(ArrDelay) FROM ontime GROUP BY DayOfWeek;
-- +-----------+---------------+
-- | DayOfWeek | AVG(ArrDelay) |
-- +-----------+---------------+
-- |         1 |        8.4854 |
-- |         2 |        6.4295 |
-- |         3 |        7.6126 |
-- |         4 |        9.8577 |
-- |         5 |       10.5425 |
-- |         6 |        4.4603 |
-- |         7 |        7.9931 |
-- +-----------+---------------+
-- 7 rows in set (1 min 52.20 sec)
SELECT FLOOR(CRSDepTime/100) AS Hour, AVG(ArrDelay) FROM ontime GROUP BY Hour;
-- +------+---------------+
-- | Hour | AVG(ArrDelay) |
-- +------+---------------+
-- |    0 |        2.6160 |
-- |    1 |        1.6824 |
-- |    2 |        0.9439 |
-- |    3 |        8.8009 |
-- |    4 |        4.0973 |
-- |    5 |       -0.1883 |
-- |    6 |        0.1889 |
-- |    7 |        1.2136 |
-- |    8 |        2.4943 |
-- |    9 |        3.4210 |
-- |   10 |        4.4658 |
-- |   11 |        5.3243 |
-- |   12 |        6.4725 |
-- |   13 |        8.4028 |
-- |   14 |        9.9337 |
-- |   15 |       11.1849 |
-- |   16 |       12.3410 |
-- |   17 |       14.1203 |
-- |   18 |       14.4066 |
-- |   19 |       14.6210 |
```

```
-- |    20 |       14.3945 |
-- |    21 |       12.7192 |
-- |    22 |        8.7032 |
-- |    23 |        6.3922 |
-- +------+--------------+
-- 24 rows in set (1 min 49.76 sec)


# Q9 - Do older planes suffer more delay?
#
# No. As the following tables show, there is no positive correlation
# between the age of the plane and its delay.

SELECT DATEDIFF(IssueDate, CURDATE()) FROM plane WHERE TailNum IN (
        SELECT TailNum FROM ontime ORDER BY ArrDelay DESC LIMIT 10
);
-- ERROR 1235 (42000): This version of MySQL doesn't yet support
--                     'LIMIT & IN/ALL/ANY/SOME subquery'
SELECT DATEDIFF(IssueDate, CURDATE()) FROM plane WHERE TailNum IN (
        SELECT * FROM (
                SELECT TailNum FROM ontime ORDER BY ArrDelay DESC LIMIT 10
        ) AS temp
);
-- +------------------------------+
-- | DATEDIFF(IssueDate, CURDATE()) |
-- +------------------------------+
-- |                        -8741 |
-- |                        -7800 |
-- |                        -8675 |
-- |                        -6304 |
-- |                        -3293 |
-- |                        -3231 |
-- +------------------------------+
-- 6 rows in set (1 min 45.33 sec)
SELECT DATEDIFF(IssueDate, CURDATE()) FROM plane WHERE TailNum IN (
        SELECT * FROM (
                SELECT TailNum FROM ontime ORDER BY ArrDelay ASC LIMIT 10
        ) AS temp
);
-- +------------------------------+
-- | DATEDIFF(IssueDate, CURDATE()) |
-- +------------------------------+
-- |                        -8200 |
-- |                        -7598 |
-- |                        -7352 |
-- |                        -7218 |
-- |                        -4373 |
-- |                        -4349 |
-- |                        -4608 |
-- |                        -4533 |
-- +------------------------------+
-- 8 rows in set (1 min 11.22 sec)


# Q10 - How well does weather or season predict plane delay?
#
# Let's find the correlation between arrival delay and weather delay.
# The correlation coefficient is 0.29, which means a weak positive correlation.

SELECT
```

```
        @AvgArrDelay := AVG(ArrDelay), @AvgWeatherDelay := AVG(WeatherDelay),
        @StdArrDelay := STDDEV_SAMP(ArrDelay), @StdWeatherDelay := STDDEV_SAMP(WeatherDelay)
        FROM ontime;
-- +-------------+------------------+-------------------+------------------+
-- | @AvgArrDelay | @AvgWeatherDelay | @StdArrDelay      | @StdWeatherDelay  |
-- +-------------+------------------+-------------------+------------------+
-- |  7.990401238 |      0.696268886 | 36.12799877414426 | 8.868056284288038 |
--
-- +-------------+------------------+-------------------+------------------+
-- 1 row in set (57.54 sec)
SELECT
        SUM( (ArrDelay-@AvgArrDelay)*(WeatherDelay-@AvgWeatherDelay) ) /
        ( (COUNT(ArrDelay)-1)*@StdArrDelay*@StdWeatherDelay )
        FROM ontime;
-- +---------------------------------------------+
-- | SUM( (ArrDelay-@AvgArrDelay)*(WeatherDelay-... |
-- +---------------------------------------------+
-- |                              0.2854138548147738 |
-- +---------------------------------------------+
-- 1 row in set (1 min 5.08 sec)

# Q11 - Can you detect cascaded failures
#        as delay in one airport causes delay in another?
#        Are there any critical links in the system?
#
# This plane went through DEN -> SEA -> SFO -> RNO on 2004-09-01.
# However, the first flight was seriously delayed,
# leading to cascaded delay in the second and the third flight.
# (Although the duration of the second and the third flight is as scheduled.)

SELECT CRSDepTime, DepTime, DepDelay, CRSArrTime, ArrTime, ArrDelay
        FROM assignments.ontime
        WHERE Year = 2004 AND Month = 9 AND DayOfMonth = 1
        AND TailNum = 'N530UA' AND LateAircraftDelay > 0;
-- +------------+---------+----------+------------+---------+----------+
-- | CRSDepTime | DepTime | DepDelay | CRSArrTime | ArrTime | ArrDelay |
-- +------------+---------+----------+------------+---------+----------+
-- |       1434 |    1623 |      109 |       1612 |    1803 |      111 |
-- |       1712 |    1846 |       94 |       1908 |    2042 |       94 |
-- |       2008 |    2114 |       66 |       2058 |    2204 |       66 |
-- +------------+---------+----------+------------+---------+----------+
-- 3 rows in set (0.02 sec)
SELECT CRSElapsedTime, ActualElapsedTime, LateAircraftDelay, Origin, Dest
        FROM assignments.ontime
        WHERE Year = 2004 AND Month = 9 AND DayOfMonth = 1
        AND TailNum = 'N530UA' AND LateAircraftDelay > 0;
-- +----------------+-------------------+-------------------+--------+------+
-- | CRSElapsedTime | ActualElapsedTime | LateAircraftDelay | Origin | Dest |
-- +----------------+-------------------+-------------------+--------+------+
-- |            158 |               160 |               106 | DEN    | SEA  |
-- |            116 |               116 |                94 | SEA    | SFO  |
-- |             50 |                50 |                66 | SFO    | RNO  |
-- +----------------+-------------------+-------------------+--------+------+
-- 3 rows in set (0.02 sec)

# Q12 - Feel free to think.
#        Write down any valuable observation with explanation.
#
```

```sql
# The most convenient airport in the United States in 2008
# is William B Hartsfield-Atlanta Intl in Atlanta, GA.
# We can head for 173 different airports there.

CREATE TEMPORARY TABLE IF NOT EXISTS temp AS (
        SELECT Origin, COUNT(DISTINCT Dest) AS DestCount
        FROM ontime WHERE Year = 2008 GROUP BY Origin
);
-- Query OK, 303 rows affected (1 min 33.62 sec)
-- Records: 303  Duplicates: 0  Warnings: 0
SELECT airport.Airport AS AirportName,
        CONCAT(airport.City, ', ', airport.State) AS Location,
        temp.DestCount AS AccessibleAirportCount
        FROM airport
        INNER JOIN temp ON airport.Iata = temp.Origin
        ORDER BY AccessibleAirportCount DESC
        LIMIT 0, 50;
-- +----------------------------------+----------------------+--------------+
-- | AirportName                      | Location             | Accessible... |
-- +----------------------------------+----------------------+--------------+
-- | William B Hartsfield-Atlanta Intl | Atlanta, GA          |          173 |
-- | Chicago O'Hare International      | Chicago, IL          |          149 |
-- | Dallas-Fort Worth International   | Dallas-Fort Worth, TX |          134 |
-- | Denver Intl                      | Denver, CO           |          127 |
-- | Minneapolis-St Paul Intl         | Minneapolis, MN      |          126 |
-- | Detroit Metropolitan-Wayne County | Detroit, MI          |          118 |
-- | George Bush Intercontinental     | Houston, TX          |          114 |
-- | Salt Lake City Intl              | Salt Lake City, UT   |          114 |
-- | Cincinnati Northern Kentucky Intl | Covington, KY        |          113 |
-- | Newark Intl                      | Newark, NJ           |           92 |
-- | McCarran International            | Las Vegas, NV        |           91 |
-- | Los Angeles International         | Los Angeles, CA      |           90 |
-- | Orlando International             | Orlando, FL          |           89 |
-- | Phoenix Sky Harbor International  | Phoenix, AZ          |           88 |
-- | Charlotte/Douglas International   | Charlotte, NC        |           82 |
-- | Memphis International             | Memphis, TN          |           79 |
-- | Cleveland-Hopkins Intl           | Cleveland, OH        |           75 |
-- | San Francisco International       | San Francisco, CA    |           74 |
-- | Washington Dulles International   | Chantilly, VA        |           71 |
-- | John F Kennedy Intl              | New York, NY         |           68 |
-- | Baltimore-Washington International | Baltimore, MD        |           65 |
-- | Gen Edw L Logan Intl             | Boston, MA           |           63 |
-- | Tampa International               | Tampa, FL            |           62 |
-- | Philadelphia Intl                | Philadelphia, PA     |           61 |
-- | LaGuardia                        | New York, NY         |           60 |
-- | Fort Lauderdale-Hollywood Int'l  | Ft. Lauderdale, FL   |           58 |
-- | Seattle-Tacoma Intl              | Seattle, WA          |           56 |
-- | Chicago Midway                   | Chicago, IL          |           54 |
-- | San Diego International-Lindbergh | San Diego, CA        |           54 |
-- | General Mitchell International    | Milwaukee, WI        |           53 |
-- | Ronald Reagan Washington National | Arlington, VA        |           52 |
-- | Kansas City International         | Kansas City, MO      |           52 |
-- | Austin-Bergstrom International    | Austin, TX           |           52 |
-- | Lambert-St Louis International    | St Louis, MO         |           50 |
-- | Nashville International           | Nashville, TN        |           49 |
-- | Miami International               | Miami, FL            |           48 |
-- | Portland Intl                    | Portland, OR         |           45 |
-- | San Antonio International         | San Antonio, TX      |           43 |
```

```
-- | Raleigh-Durham International      | Raleigh, NC          |            43 |
-- | New Orleans International         | New Orleans, LA      |            41 |
-- | Indianapolis International        | Indianapolis, IN     |            40 |
-- | Albuquerque International         | Albuquerque, NM      |            38 |
-- | Port Columbus Intl                | Columbus, OH         |            38 |
-- | Sacramento International          | Sacramento, CA       |            37 |
-- | Southwest Florida International    | Ft. Myers, FL        |            35 |
-- | Jacksonville International         | Jacksonville, FL     |            35 |
-- | Metropolitan Oakland International | Oakland, CA          |            34 |

-- | Pittsburgh International          | Pittsburgh, PA       |            34 |
-- | William P Hobby                   | Houston, TX          |            33 |
-- | Bradley International             | Windsor Locks, CT    |            33 |
-- +-----------------------------------+----------------------+--------------+
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