**Top 10 Origins of Delays and Cancellations by Airline**

SELECT Marketing\_Airline\_Network, Origin, OriginCityName, OriginState,

    COUNT(\*) AS total\_delayed\_flights

FROM

    `direct-axiom-428510-d6.team2\_assigmnent2.FlightsWithDuration`

WHERE

    DepDelayMinutes > 60 OR ArrDelayMinutes > 60 OR Cancelled = 1

GROUP BY

    Marketing\_Airline\_Network, Origin, OriginCityName, OriginState

ORDER BY

    total\_delayed\_flights DESC

LIMIT 10;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Marketing\_Airline\_Network | Origin | OriginCityName | OriginState | total\_delayed\_flights |  |
| UA | ORD | Chicago, IL | IL | 2747 |  |
| UA | DEN | Denver, CO | CO | 1948 |  |
| UA | EWR | Newark, NJ | NJ | 1695 |  |
| UA | SFO | San Francisco, CA | CA | 1252 |  |
| AA | DFW | Dallas/Fort Worth, TX | TX | 1187 |  |
| AA | CLT | Charlotte, NC | NC | 1125 |  |
| UA | IAD | Washington, DC | VA | 1117 |  |
| UA | MIA | Miami, FL | FL | 995 |  |
| AA | MIA | Miami, FL | FL | 811 |  |
| UA | IAH | Houston, TX | TX | 770 |  |

Top 10 Origins for Cancellations by AIrline

SELECT Marketing\_Airline\_Network, Origin, OriginCityName, OriginState,AVG(DepDelayMinutes) AS avg\_depdelaymins,AVG(ArrDelayMinutes) AS avg\_arrdelaymins, SUM (Cancelled) as tot\_cancelled

FROM `team2\_assigmnent2.FlightsWithDuration`

GROUP BY Marketing\_Airline\_Network, Origin, OriginCityName, OriginState

ORDER BY tot\_cancelled DESC, avg\_depdelaymins DESC, avg\_arrdelaymins DESC, tot\_cancelled DESC

LIMIT 10;

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Marketing\_Airline\_Network | Origin | OriginCityName | OriginState | avg\_depdelaymins | avg\_arrdelaymins | tot\_cancelled |
| UA | ORD | Chicago, IL | IL | 12.87924513 | 13.60960888 | 774 |
| AA | CLT | Charlotte, NC | NC | 8.573513514 | 9.102912771 | 478 |
| UA | EWR | Newark, NJ | NJ | 16.17178003 | 14.82362307 | 458 |
| AA | ORD | Chicago, IL | IL | 14.72075527 | 15.07049956 | 324 |
| UA | CLE | Cleveland, OH | OH | 7.065496709 | 5.870886869 | 262 |
| AA | DFW | Dallas/Fort Worth, TX | TX | 9.235549551 | 9.14481958 | 237 |
| AA | DCA | Washington, DC | VA | 11.30384754 | 11.55177994 | 231 |
| UA | IAH | Houston, TX | TX | 6.481453492 | 5.739297648 | 221 |
| UA | PHX | Phoenix, AZ | AZ | 5.991855584 | 5.606801008 | 172 |
| AA | MIA | Miami, FL | FL | 10.36973675 | 10.64437555 | 171 |

The results of these highlighted Chicago O’hare as a problematic flight origin airport.