

flights.xlsx - Excel

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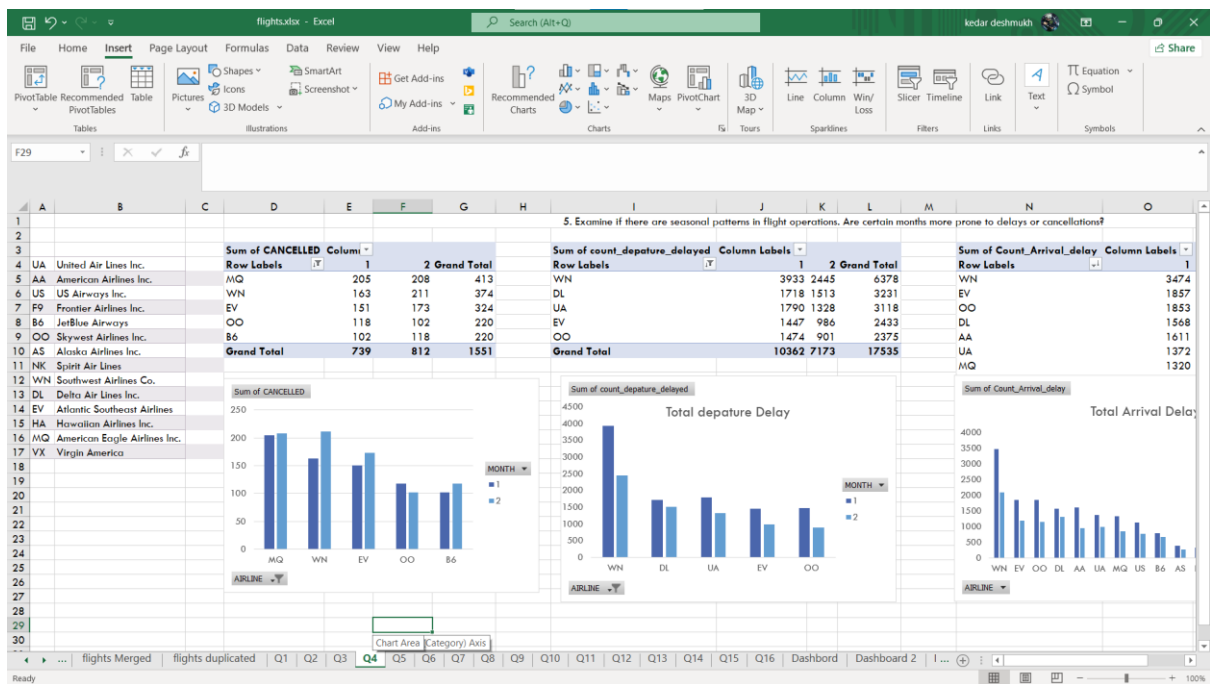
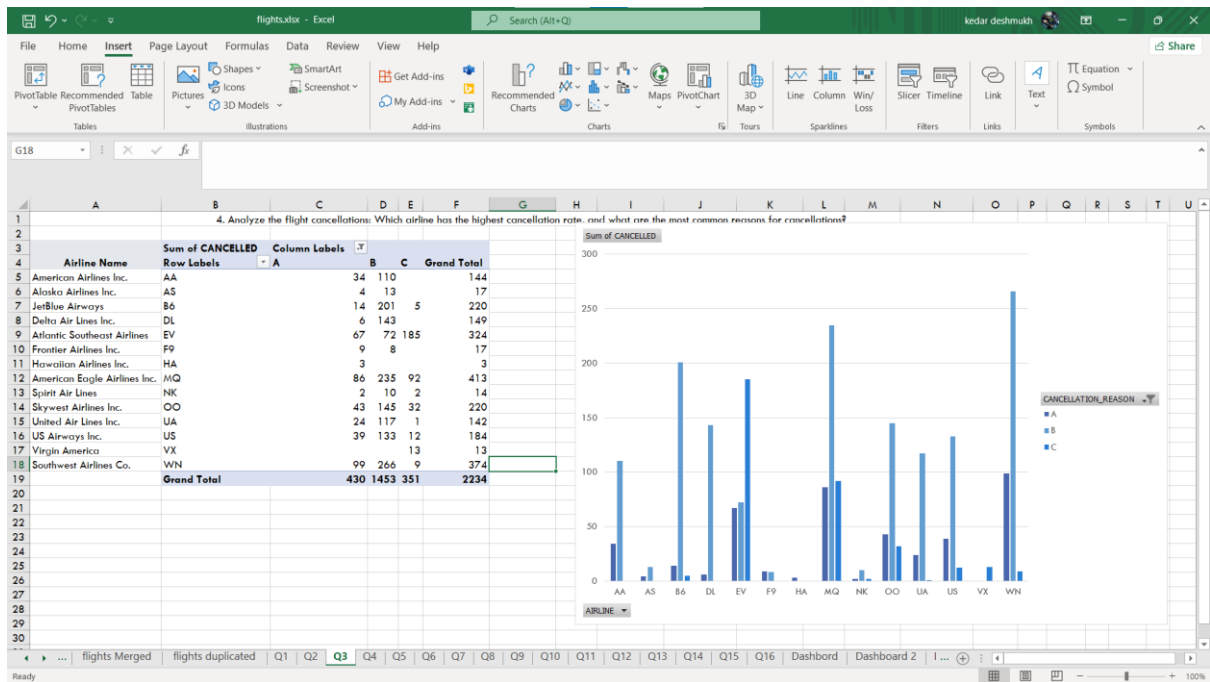
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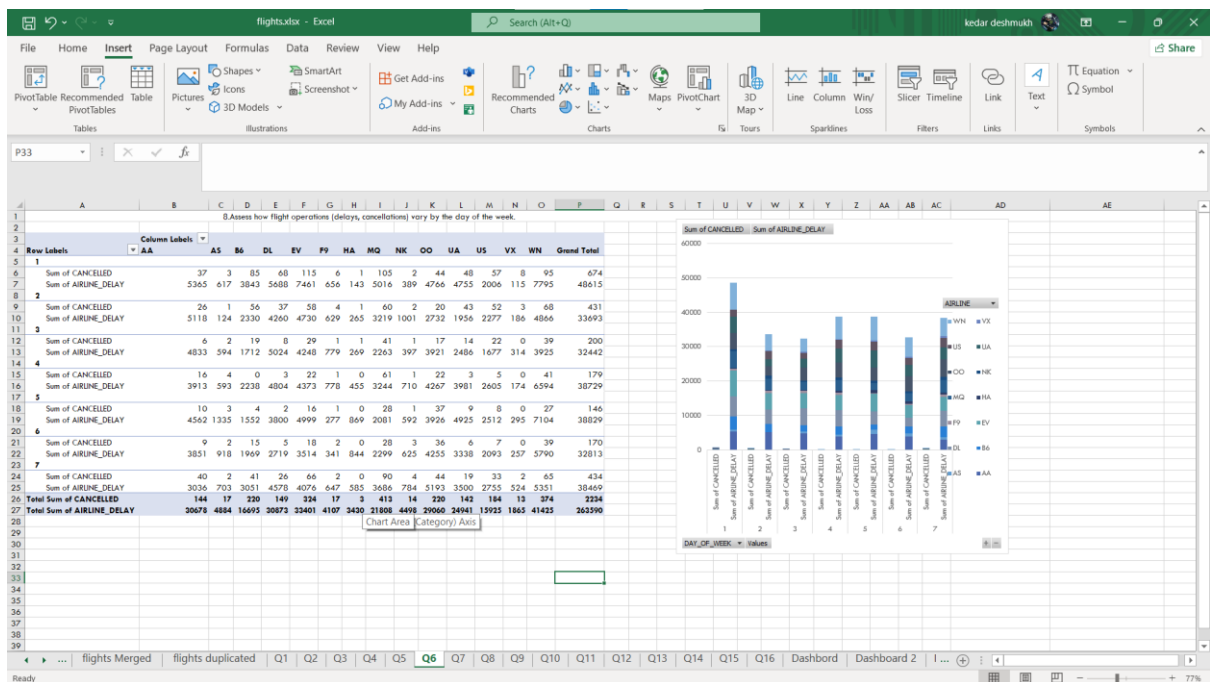
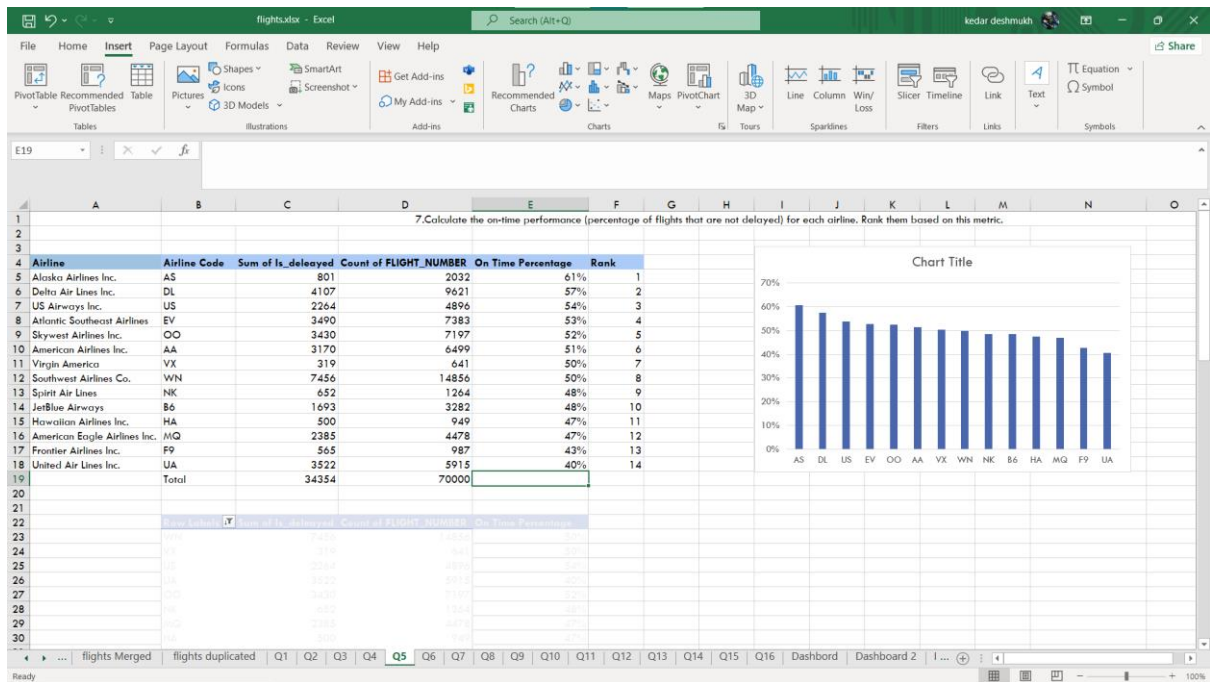
3. Airport Traffic Volume:

Identify the top 5 busiest airports based on the number of incoming and outgoing flights.

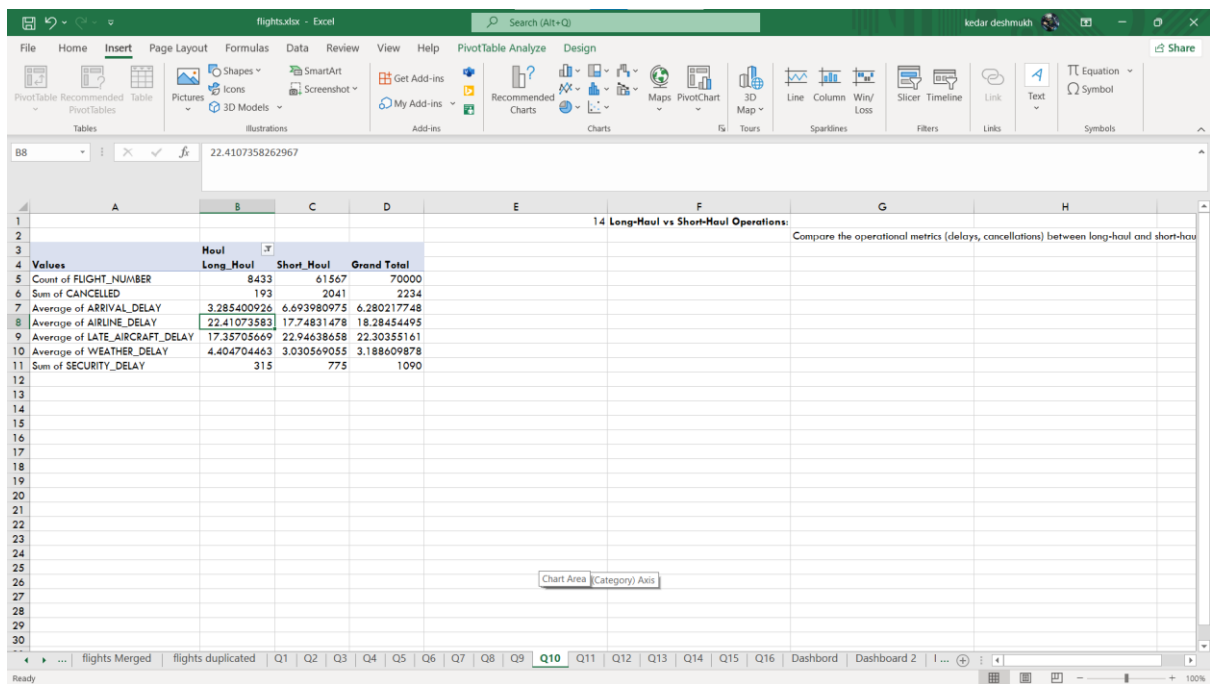
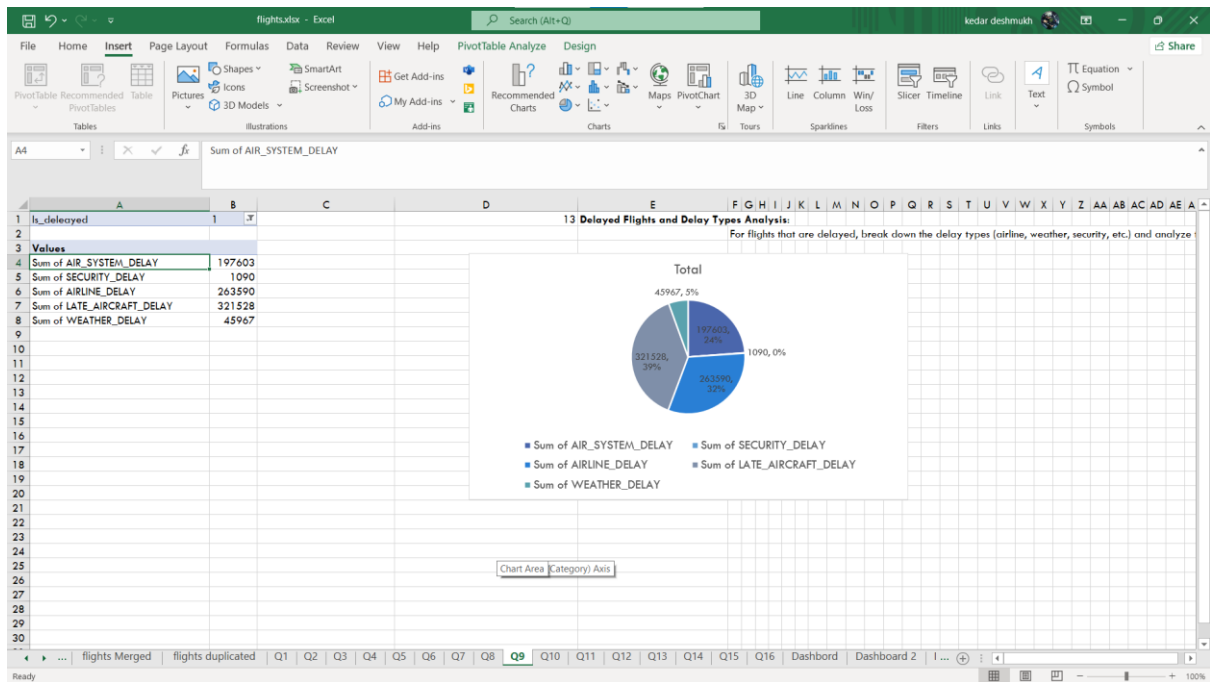
| DESTINATION_AIRPORT | Count of FLIGHT_NUMBER | Origin Airport | Counts of Flights | Total | Airport Name                                 | Airport | Sum of Total |
|---------------------|------------------------|----------------|-------------------|-------|--|---------|--------------|
| JAN                 | 103                    | JAN            | 114               | 217   | Hartsfield-Jackson Atlanta International Air | ATL     | 8791         |
| SAT                 | 383                    | SAT            | 383               | 766   | Chicago O'Hare International Airport         | ORD     | 6909         |
| SUN                 | 16                     | SUN            | 14                | 30    | Dallas/Fort Worth International Airport      | DFW     | 6886         |
| ABE                 | 23                     | ABE            | 23                | 46    | Los Angeles International Airport            | LAX     | 5169         |
| ABI                 | 42                     | ABI            | 43                | 85    | Denver International Airport                 | DEN     | 32861        |
| ABQ                 | 221                    | ABQ            | 218               | 439   |  |         |              |
| ABR                 | 8                      | ABR            | 6                 | 14    |  |         |              |
| ABY                 | 10                     | ABY            | 11                | 21    |  |         |              |
| ACT                 | 24                     | ACT            | 19                | 43    |  |         |              |
| ACV                 | 15                     | ACV            | 26                | 41    |  |         |              |
| ACY                 | 46                     | ACY            | 54                | 100   |  |         |              |
| ADK                 | 1                      | #N/A           | #N/A              | #N/A  |  |         |              |
| ADQ                 | 12                     | ADQ            | 6                 | 18    |  |         |              |
| AEX                 | 42                     | AEX            | 47                | 89    |  |         |              |
| AGS                 | 37                     | AGS            | 31                | 68    |  |         |              |
| ALB                 | 88                     | ALB            | 75                | 163   |  |         |              |
| ALO                 | 10                     | ALO            | 9                 | 19    |  |         |              |
| ANA                 | 71                     | ANA            | 70                | 141   |  |         |              |
| ANC                 | 165                    | ANC            | 183               | 348   |  |         |              |
| APN                 | 6                      | APN            | 11                | 17    |  |         |              |
| ASE                 | 95                     | ASE            | 97                | 192   |  |         |              |
| ATL                 | 4360                   | ATL            | 4431              | 8791  |  |         |              |
| ATW                 | 34                     | ATW            | 43                | 77    |  |         |              |
| AUS                 | 506                    | AUS            | 499               | 1005  |  |         |              |
| AVL                 | 28                     | AVL            | 39                | 67    |  |         |              |
| AVP                 | 19                     | AVP            | 20                | 39    |  |         |              |
| AZO                 | 30                     | AZO            | 24                | 54    |  |         |              |

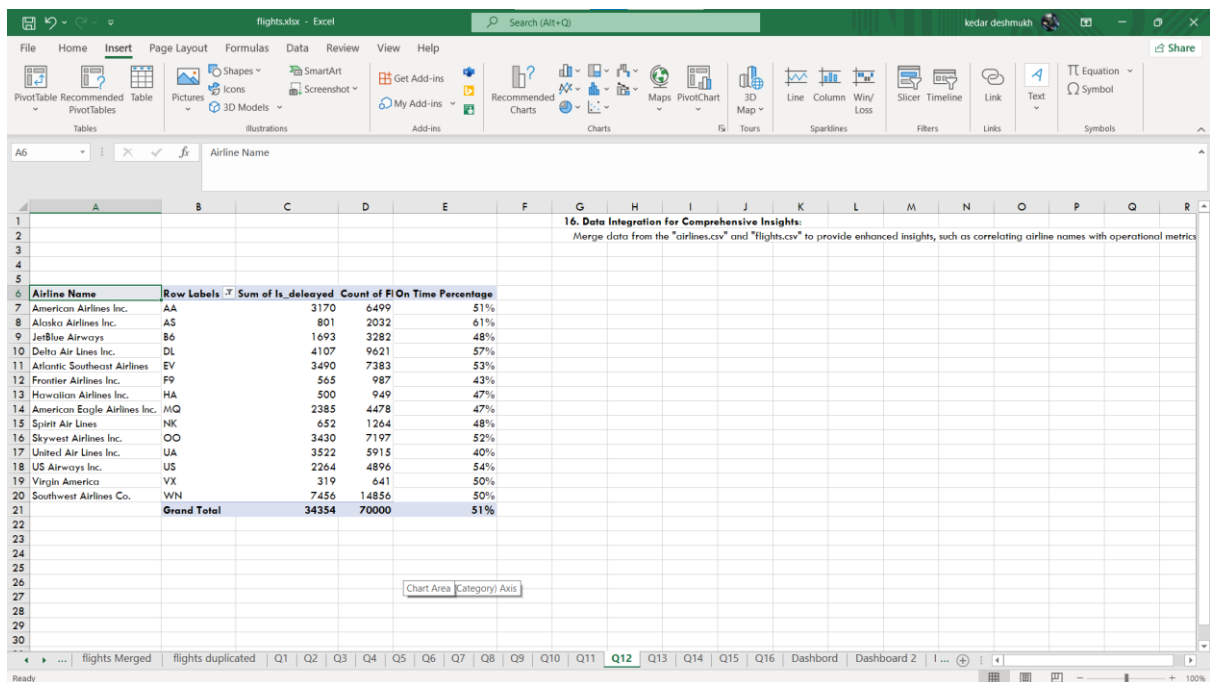
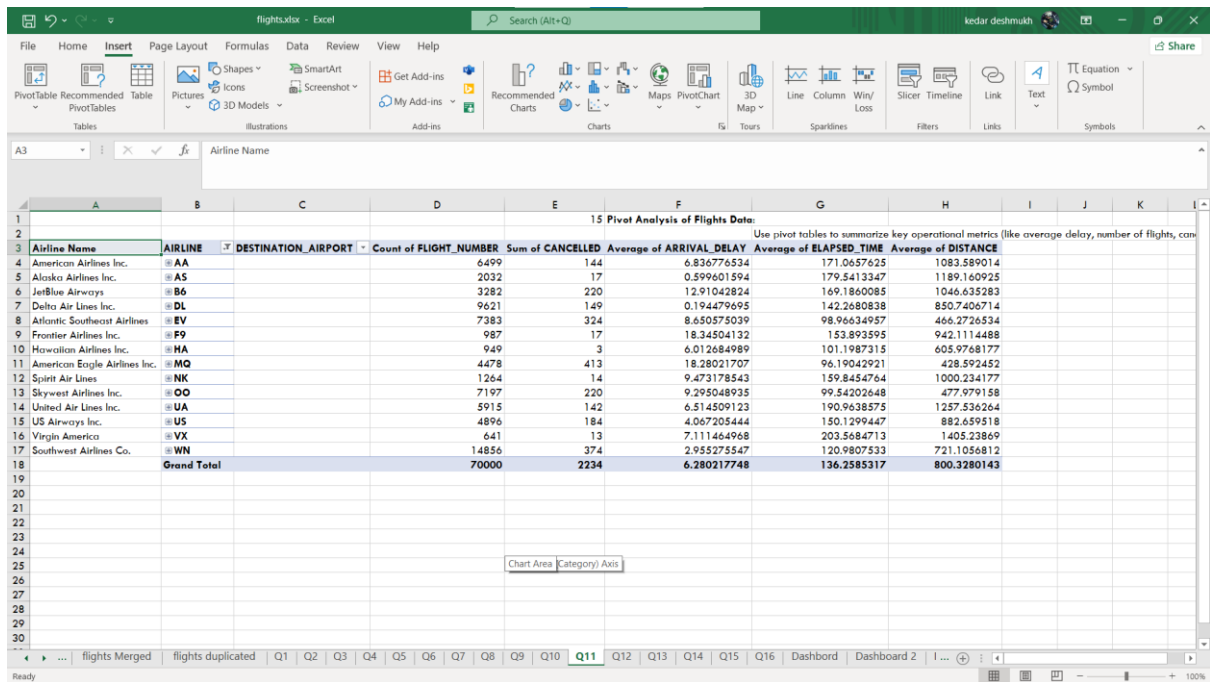
flights Merged flights duplicated Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Dashboard Dashboard 2











| flights.xlsx - Excel  |             |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
|---|-------------|---------------------------------------|-------------------------|----------------------------|--|---|---|---|---|---|---|---|---|---|---|
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| PivotTable Recommended Table Pictures Shapes SmartArt Screenshot Get Add-ins My Add-ins Recommended Charts Charts Maps PivotChart 3D Map Line Column Win/Loss Slicer Timeline Link Text Equation Symbol |             |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| F16   |             |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| A   | B           | C                                     | D                       | E                          | F  | G | H | I | J | K | L | M | N | O | P |
| 1   |             |                                       |                         |                            | 16. Airport Operations and Connectivity Assessment:  |   |   |   |   |   |   |   |   |   |   |
| 2   |             |                                       |                         |                            | Combine the "flights.csv" dataset with the "airports.csv" based on airport codes. Use the merged dataset to identify |   |   |   |   |   |   |   |   |   |   |
| 3   | Row Labels  | Distinct Count of DESTINATION_AIRPORT | Average of ARRIVAL_DELA | Average of DEPARTURE_DELAY |  |   |   |   |   |   |   |   |   |   |   |
| 4   | ATL         |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 5   | Hartfield-  | 156                                   | 1.842971429             | 7.632587859                |  |   |   |   |   |   |   |   |   |   |   |
| 6   | DEN         |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 7   | Denver Intl | 128                                   | 9.392942109             | 13.64071146                |  |   |   |   |   |   |   |   |   |   |   |
| 8   | DFW         |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 9   | Dallas/Fort | 145                                   | 8.610762332             | 10.69354359                |  |   |   |   |   |   |   |   |   |   |   |
| 10  | DTW         |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 11  | Detroit Me  | 96                                    | 7.86316568              | 14.10635155                |  |   |   |   |   |   |   |   |   |   |   |
| 12  | EW          |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 13  | Newark Lib  | 76                                    | 6.100165563             | 13.48595041                |  |   |   |   |   |   |   |   |   |   |   |
| 14  | IAH         |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 15  | George Bu   | 108                                   | 3.031866464             | 6.562720403                |  |   |   |   |   |   |   |   |   |   |   |
| 16  | LAX         |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 17  | Los Angeles | 78                                    | 7.199375732             | 8.947204969                |  |   |   |   |   |   |   |   |   |   |   |
| 18  | MSP         |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 19  | Minneapolis | 98                                    | 1.715909091             | 9.608761329                |  |   |   |   |   |   |   |   |   |   |   |
| 20  | ORD         |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 21  | Chicago O   | 147                                   | 18.1419335              | 20.94885145                |  |   |   |   |   |   |   |   |   |   |   |
| 22  | SLC         |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 23  | Salt Lake C | 78                                    | -1.620015637            | 4.163424125                |  |   |   |   |   |   |   |   |   |   |   |
| 24  | Grand Total | 278                                   | 6.991202725             | 11.25219147                |  |   |   |   |   |   |   |   |   |   |   |
| 25  |             |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 26  |             |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 27  |             |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 28  |             |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 29  |             |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |
| 30  |             |                                       |                         |                            |  |   |   |   |   |   |   |   |   |   |   |

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|---|-------------|----------------------------|--------------------------|---|------------------------------|---------|-----------|-----------|--------------|---|---|---|---|---|---|
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| H3  |             |                            |                          |   |                              |         |           |           |              |   |   |   |   |   |   |
| Airline Name  |             |                            |                          |   |                              |         |           |           |              |   |   |   |   |   |   |
| C   | D           | E                          | F                        | G | H                            | I       | J         | K         | L            | M | N | O | P | Q | R |
| 1   |             |                            |                          |   |                              |         |           |           |              |   |   |   |   |   |   |
| 2   |             |                            |                          |   |                              |         |           |           |              |   |   |   |   |   |   |
| 3   | Row Labels  | Average of DEPARTURE_DELAY | Average of ARRIVAL_DELAY |   | Airline Name                 | Airline | Frequency | Delay     | Total Impact |   |   |   |   |   |   |
| 4   | AA          | 10.60                      | 6.84                     |   | American Airlines Inc.       | AA      | 2550      | 17.44     | 44470.68     |   |   |   |   |   |   |
| 5   | AS          | 4.03                       | 0.60                     |   | Alaska Airlines Inc.         | AS      | 646       | 4.63      | 2993.14      |   |   |   |   |   |   |
| 6   | B6          | 15.18                      | 12.91                    |   | JetBlue Airways              | B6      | 1456      | 28.09     | 40900.58     |   |   |   |   |   |   |
| 7   | DL          | 7.69                       | 0.19                     |   | Delta Air Lines Inc.         | DL      | 2874      | 7.88      | 22648.15     |   |   |   |   |   |   |
| 8   | EV          | 9.97                       | 8.65                     |   | Atlantic Southeast Airlines  | EV      | 3045      | 18.62     | 56691.44     |   |   |   |   |   |   |
| 9   | F9          | 17.02                      | 18.35                    |   | Frontier Airlines Inc.       | F9      | 521       | 35.36     | 18424.97     |   |   |   |   |   |   |
| 10  | HA          | 2.60                       | 6.01                     |   | Hawaiian Airlines Inc.       | HA      | 466       | 8.61      | 4013.23      |   |   |   |   |   |   |
| 11  | MQ          | 16.58                      | 18.28                    |   | American Eagle Airlines Inc. | MQ      | 2148      | 34.86     | 75580.27     |   |   |   |   |   |   |
| 12  | NK          | 11.33                      | 9.47                     |   | Spirit Air Lines             | NK      | 565       | 20.80     | 11751.31     |   |   |   |   |   |   |
| 13  | OO          | 10.76                      | 9.30                     |   | Skywest Airlines Inc.        | OO      | 3009      | 20.05     | 60341.70     |   |   |   |   |   |   |
| 14  | UA          | 14.14                      | 6.51                     |   | United Air Lines Inc.        | UA      | 2359      | 20.66     | 48730.20     |   |   |   |   |   |   |
| 15  | US          | 5.99                       | 4.07                     |   | US Airways Inc.              | US      | 1881      | 10.05     | 18910.08     |   |   |   |   |   |   |
| 16  | VX          | 12.14                      | 7.11                     |   | Virgin America               | VX      | 247       | 19.25     | 4755.14      |   |   |   |   |   |   |
| 17  | WN          | 9.13                       | 2.96                     |   | Southwest Airlines Co.       | WN      | 5560      | 12.09     | 67203.46     |   |   |   |   |   |   |
| 18  | Grand Total | 10.18990533                | 6.280217748              |   |                              |         |           | 0.00      | 67203.46     |   |   |   |   |   |   |
| 19  |             |                            |                          |   |                              |         |           |           |              |   |   |   |   |   |   |
| 20  |             |                            |                          |   |                              |         |           |           |              |   |   |   |   |   |   |
| 21  |             |                            |                          |   |                              |         |           |           |              |   |   |   |   |   |   |
| 22  |             |                            |                          |   |                              |         |           |           |              |   |   |   |   |   |   |
| 23  | AA          | 10.60270933                | 6.84                     |   |                              |         |           | 6.845777  |              |   |   |   |   |   |   |
| 24  | AS          | 4.032746899                | 0.60                     |   |                              |         |           | 0.599602  |              |   |   |   |   |   |   |
| 25  | B6          | 15.18063254                | 12.91                    |   |                              |         |           | 12.91043  |              |   |   |   |   |   |   |
| 26  | DL          | 7.685877137                | 0.19                     |   |                              |         |           | 0.19648   |              |   |   |   |   |   |   |
| 27  | EV          | 9.967303604                | 8.65                     |   |                              |         |           | 8.650375  |              |   |   |   |   |   |   |
| 28  | F9          | 17.01958763                | 18.35                    |   |                              |         |           | 18.34504  |              |   |   |   |   |   |   |
| 29  | HA          | 2.597261386                | 6.01                     |   |                              |         |           | 6.012688  |              |   |   |   |   |   |   |
| 30  | MQ          | 16.58193833                | 18.28                    |   |                              |         |           | 18.280702 |              |   |   |   |   |   |   |





