

Dashboarding Project: Team 11-D3-D

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Justification

We are going to explain all assumptions made and justifying the decisions we made for the dashboarding solution for each query separately:

FH and FC per month, filtered by the aircraft model:

(Enable following trends, identifying changes, and peaksthrough time.)

We choose line chart for this Query because we notice that there is a big change in last month and It is completely visible when we show it in the line chart. We tried it with Bar Chart and Area Chart as well but we couldn't easily recognize that big change of last month. The line chart makes pattern identification easy for us.

ADOSS, ADOSU per year, filtered by the aircraft from the fleet:

(Enable identifying differences among groups over time.)

For this query we are going to use Bar Chart because we want to have comparing of Aircraft Days Out-of-Service SCHEDULED and UNSCHEDULED and since the value of these two measures are more or less close to each other, with Bar Chart we can see them beside each other per year and distinguish SCHEDULED from UNSCHEDULED Aircraft Days Out-of-Service.

RRh, RRC, PRRh, PPRC, MRRh and MPRC per month, filtered by the aircraft model:

(Enable following trends, identifying changes, and peaks of through time.)

Since we have 6 different measures that we want to show them in one Chart and see the behavior of them per month, its quiet hard to say that which type of chart can exactly, fast and easily show us changes and peaks through time. but at the end our choice for this query is the line chart which is quiet better than bar chart, because in bar chart, its a bit hard to distinguish 6 different measures which they cover each other with different colors.

MRRh and MPRC per aircraft model, filtered by the airport of the reporting person:

(Enable following the ratio among different categories.)

We want to show Maintenance logbook count for total flight-hours(MRRh) and total departures(MPRC) and since its not comparative case, we decided to use either line or bar chart, but after test it in both line and bar chart, we recognize that the changes of the values for different aircraft model are very little and the only way that you can distinguish it would be with line chart. So at the end we decide to use the line chart for this query.