# Revolve Solutions SQL Assessment

**Questions-**

1. **Which manufacturer's planes had most no of flights? And how many flights?**

Planes of Boeing had most number of flights with 1103.

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| **select**  pl.manufacturer,  **count**(\*) num\_flights  **from** flights f  **inner** **join** planes pl  **on** f.tailnum = pl.tailnum  **group** **by** pl.manufacturer  **order** **by** num\_flights **desc** |

1. **Which manufacturer's planes had most no of flying hours? And how many hours?**

Boeing’s planes had the most number of flying time with 3941 hours.

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| **with** cte **as** (  **select**  pl.manufacturer,  f.air\_time::**numeric**/60 **as** FlightHours  **from** flights f **inner** **join** planes pl  **on** f.tailnum = pl.tailnum  **where** f.air\_time != 'NA')  **select** manufacturer , round(**sum**(FlightHours), 2) **as** TotalFlightHours  **from** cte **group** **by** manufacturer  **order** **by** TotalFlightHours **Desc**  **limit** 1; |

1. **Which plane flew the most number of hours? And how many hours?**

Plane Number N322AA of American Airlines Inc. flew the most number of hours with 33.97 hours.

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| **with** cte **as** (  **select**  tailnum, carrier, round(**sum**(air\_time::**numeric**)/60,2) **as** FlightHours  **from** flights  **where** air\_time != 'NA'  **group** **by** tailnum, carrier)  **select** tailnum, "AIRLINE", flighthours **from** cte  **inner** **join** airlines air **on** cte.carrier = air."IATA\_CODE"  **order** **by** FlightHours **Desc**  **limit** 1; |

1. **Which destination had most delay in flights?**

Savannah/Hilton Head International Airport of Savannah City had most arrival delay in flights with mean arrival delay being 101 minutes

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| **select** air."AIRPORT", air."CITY",  **AVG**(f.arr\_delay::**numeric**) **as** Avg\_Delay  **from** flights f **inner** **join** airports air **on** f.dest = air."IATA\_CODE"  **where** arr\_delay != 'NA' **group** **by** air."AIRPORT", air."CITY"  **order** **by** Avg\_Delay **desc** **limit** 1; |

1. **Which manufactures planes had covered most distance? And how much distance?**

Boeing planesx` covered most distance with 1644180.

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| **select** pl.manufacturer, **sum**(f.Distance) DistanceCovered **from** flights f  **inner** **join** planes pl  **on** f.tailnum = pl.tailnum  **group** **by** pl.manufacturer  **order** **by** DistanceCovered **desc**  **limit** 1; |

1. **Which airport had most flights on weekends?**

John F. Kennedy International Airport had most number of flights on weekends with 325.

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| **with** cte **as** (  **select** origin, **count**(\*) num\_flights **from** flights  **where** **trim**(to\_char(make\_date(**year**,**month**,**day**), 'DAY')) **in** ('SATURDAY','SUNDAY')  **group** **by** origin )  **select** ap."AIRPORT", cte.num\_flights **from** cte  **inner** **join** airports ap  **on** cte.origin = ap."IATA\_CODE"  **order** **by** cte.num\_flights **desc**  **limit** 1 |