**Database Design Tasks:**Create two tables

**Volume of Data** - The table should consists of Entity (E), Relation (R) and Volume of Data (V)

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| **Entity (E)** | **Relation (R)** | **Volume of Data (V)** |
| Flight | Contains | 50 flight per days |
| Reservation | Is made by | 1,000 reservations per day |
| Customer | Makes | 50,000 frequent flyers |
| Ticketing | Is assigned to | 1,000 tickets per day |
| Staff | Manages | Hundreds of staff |
| Airport | Has | Multiple airports |
| Aircraft | Operates | Multiple aircraft types |

**Frequency of Access Table** - The table should consists of a list at least 10 operations (the students can come up with your own operations) with frequency of access for each operation. Make sure that all of these operations can be handle in your ERD design.

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| --- | --- |
| **Operation** | **Frequency of Access (per day)** |
| Retrieving passenger information for check-in | 300 times |
| Updating flight schedules and availability | 5,000 times |
| Handling reservation requests and cancellations | 1,000 times |
| Retrieving flight availability for booking | 2,000 times |
| Checking seats availability for a flight | 2,000 times |
| Issuing a ticket for a reservation | 1,000 times |
| Modifying a reservation (seat change, etc.) | 500 times |
| Retrieving customer loyalty points | 500 times |
| Monitoring aircraft maintenance status | 200 times |
| Updating crew assignments for a flight | 300 times |
| Approving or cancelling reservation by staff | 150 times |
| Processing special requests by staff (seat upgrades, baggage request, etc.) | 50 times |
| Resolving customer check-in procedures | 100 times |
| Handling emergency changes by staff (flight delays, cancellations) | 50 times |