**Introduction to Data Management: Assignment 3**

**Group Members:**

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**Problem Statement:**

Based on the DDL in last assignments, we have now created databases for the customers and their reservation histories using the script provided. Post this, we have used SQL queries to extract parts of database, as required for the analysis.

**Tasks & Methodology:**

1. Extracted card holder and card details from customer payments, ordered by expiration dates.
2. Extracted names of customers starting with A, B or C
3. Found reservations that are “upcoming” this year and associated details
4. Repeated part 3, using ‘Between’ and checked if they provide the same results by using ‘Minus’ operator
5. Found the first 10 entries for completed reservations and sorted it by length of their stay and customer IDs in descending and ascending order respectively
6. Identified customers with more than 10 stay credits available and sorted them by credits available in decreasing order
7. Identified customers present in payment database with middle names and sorted by middle and last names
8. Used dual to query out a table containing a single row with today’s date in different formats, and stays redeemable/ earned with 25 credits
9. Found first 20 completed reservations for 2nd location ordered by decreasing length of stay
10. Identified customer and reservation details using ‘join’ for customers with reservations that have been completed ordered by customer ID and check out dates in ascending and descending order respectively
11. Extracted customer and room reservation details for upcoming reservations by joining tables - Customer, Reservation, Reservation\_Details, and Room for customers with more than 40 earned stay credits
12. Found the customers who haven’t made any reservation yet and validated by finding associated reservation details
13. Divided the customers based on their earned stay credits (<10,10-40,>40) into Gold, Platinum and Diamond clubs and joined the divisions using ‘union’ operator; sorted it next based on clubs and customer last names