SQL 101

DDL STATEMENTS

- Create a file format that can read a CSV file from your local laptop
- ☐ Create an ACCT_2023 table in your sandbox by loading the acct.csv file from your laptop to snowflake
- ☐ Copy CUST_2023 and TRXN_2023 tables from **HRDW_DB_COLLAB.LAB_TRAINING** to your sandbox(SB.USER_ABC123)

Exercise 2

DDL STATEMENTS

- □ Add a new column COUNTRY (varchar (3)) to the CUST_2023 table
- ☐ Create a TRANS view of the TRXN_2023 table with only TRXN_ID and TRXN_AMT data
- ☐ Drop the TRXN_2023 table
- ☐ Undrop TRXN_2023 table

SELECT STATEMENTS

- □ Write a SELECT statement to get all the columns from the CUST_2023 table
- ☐ Write a statement that will select only the CUST_NAME column from the CUST_2023 table
- ☐ Select all unique values in the STATE column from the CUST_2023 table

Exercise 4

USING THE WHERE CLAUSE

- ☐ Using CUST_2023 table list only the customers from the state Virginia
- ☐ List all customers except the customers from New York
- ☐ Display only records of customers from ALBANY, OR
- ☐ Display customers either from VA or PA

USING ORDER BY CLAUSE

- ☐ Show the records in CUST_2023 table sorted by state
- ☐ Show the records in CUST_2023 table sorted in reverse order by customer name
- ☐ Show the records in CUST_2023 table sorted by State and then by city in each state

WORKING WITH NULL VALUES

- Display all records from CUST_2023 table where the HOME_PHN_NUM column is null
- Display all records from CUST_2023 table where the WORK_PHN_NUM column is not null
- Display a new column Country_New with NULL COUNTRY values replaced with word "Missing"

USING RANGES AND SETS

- ☐ Show all customers from the states CA, GA, IA, LA, MA, PA, VA and WA
- ☐ Show all customers from states other than CA, GA, IA, LA, MA, PA, VA and WA
- ☐ Show all accounts where the transaction amount range from \$5000 to \$6000, inclusive
- Show all customers whose first name is alphabetically between 'A' and 'C', inclusive (1238 rows)

USING BUILT IN SQL FUNCTIONS

- ☐ Find the smallest and largest transaction amounts from the TRXN_2023 table
- → How many customers are from VA?
- What is the average of the transactions in 2020 from the TRXN_2023 table?
- What is the transactions total in 2021 from TRXN_2023 table?
- Produce an output with customer's address line 1 and address line 2 separated by a comma and space in between

AGGREGATIONS

- ☐ List the number of accounts under each card_type
- ☐ List the minimum, maximum and average transaction amounts of the acct_id=1281249461 in 2020 and 2021
- ☐ List only the first letter of customers name as well as how often they occur

LIKES AND WILDCARDS

- ☐ Show all customers whose name starts with 'D'
- ☐ Show all customers whose name ends with 'r' or 'R'
- ☐ Show all customers whose name contains the letter 'k' or 'K'
- ☐ Show all customers whose name starts with 'A' and ends with 'r'

LIKES AND WILDCARDS, CONT.

- ☐ Show all customers whose name doesn't start with 'P'
- ☐ Show all customers where the second letter of their name is 'v' or 'V'
- ☐ Use the 'UPPER' or 'LOWER' commands to show all customers with a first name of 'Crystal' regardless of how the letters are formatted.

DATE FUNCTIONS

- ☐ List today's date
- ☐ Show the date: 05.31.1999 (in MM.DD.YYYY format) in snowflake format
- ☐ Show all the accounts where ACCT_OPEN_DT occurred in the last 1500 days
- ☐ How many accounts were opened in each QUARTER irrespective of the year
- ☐ For how many months, on average, has each account been open for?

INSERT AND DELETE STATEMENTS

- ☐ Insert a new record into CUST_2023 table with your name and sample cust_id
- Delete the row that you just inserted

UPDATE STATEMENTS

- ☐ Update the City to 'Boston' for all records in the CUST_2023 table, but only when the state is 'MA'
- ☐ Update the City to 'St. Louis' and the COUNTRY to 'USA' for all records in the CUST_2023 table, only when STATE is 'MO'
- □ Update the COUNTRY to 'USA' for all records in the CUST_2023 table, when the state is in US and all others records to 'CAN' (Canada) when canada province is present make all records 'Missing' when no state or state doesn't fall under USA/CAN