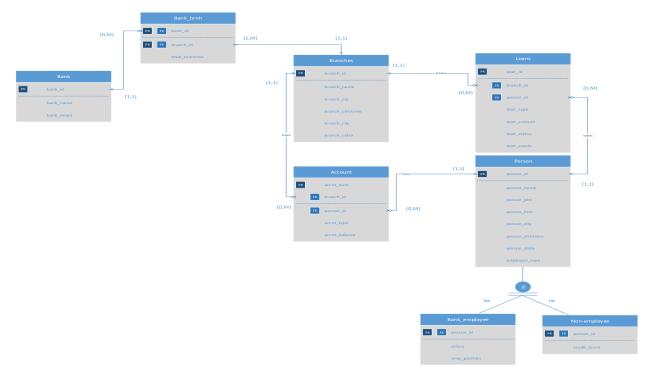
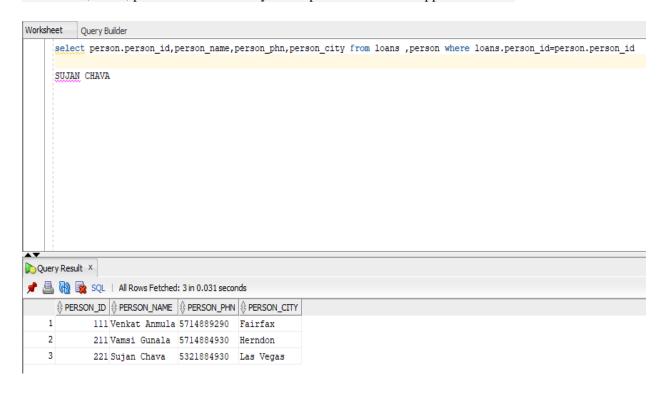
SUJAN CHAVA 1 AIT-524-002 Database Management Systems Assignment-10 SUJAN CHAVA George Mason University

ER-DIAGRAM:

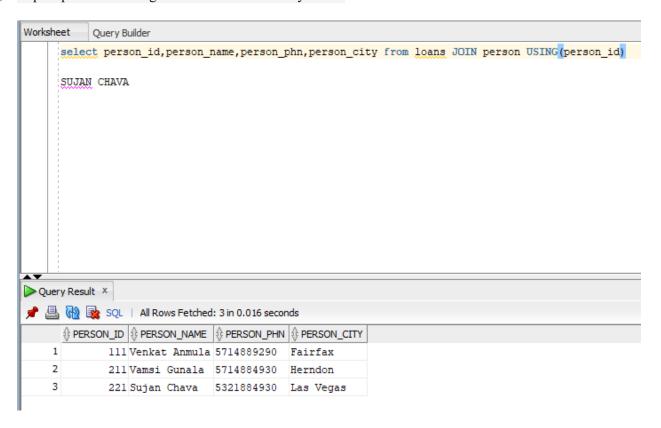


1) Write a SQL code to join two tables using the WHERE statement. Explain what the query is intended to do.

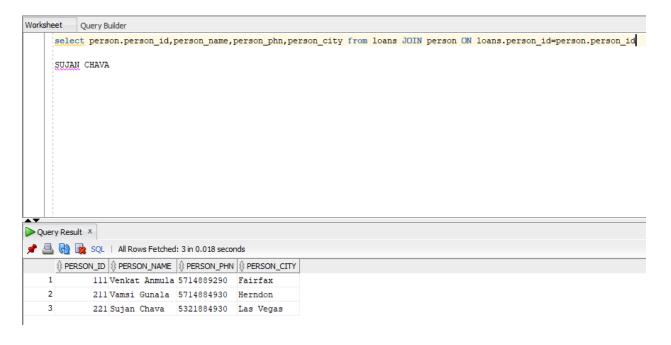
Retrieve id, name, phone number and city of the persons who have applied for loan.



2) Repeat problem 1 using the JOIN ... USING keywords.



3) Repeat problem 1 using the JOIN ... ON keywords.



4) Repeat problem 1 but add at least two conditions in the WHERE statement and use an arithmetic and a special operator. Use logical operators to combine multiple conditions. Explain what the query is intended to do.

Retrieve the id, name, phone number, and city of the persons who have applied for housing and car loans and having the loan amount to loan assets ratio greater than or equal to 2.



5) Repeat problem 2 but add two more conditions in the WHERE statement and use an arithmetic and a special operator which are different from the ones you used in the previous query. Use logical operators to combine multiple conditions. Explain what the query is intended to do.

Retrieve the id, name, phone, city of the persons whose name ends with 'a' and difference between loan amount and assets is less than 10000.

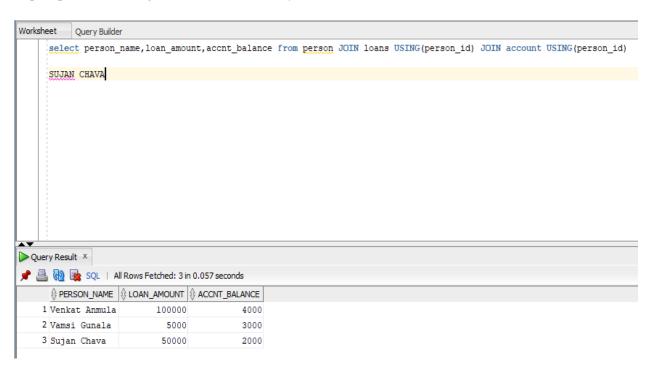


6) Write a SQL code to join three tables using the WHERE statement. Explain what the query is intended to do.

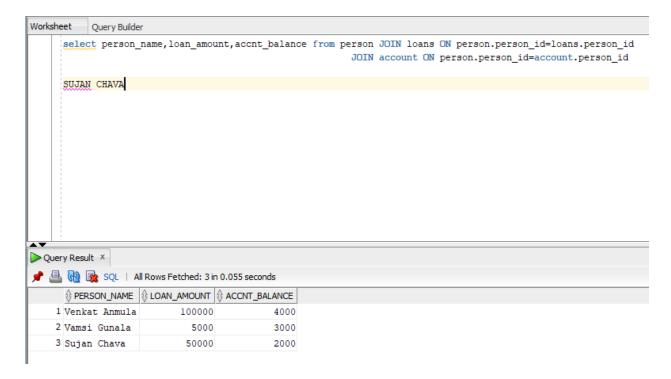
Retrieve name, loan amount applied and account balance of the persons who have account and applied for loan.



7) Repeat problem 6 using JOIN....USING.... keywords.



8) Repeat problem 6 using JOIN....ON... keywords.



9) Repeat problem 6 but add at least two conditions in the WHERE statement and use an arithmetic and a special operator. Use logical operators to combine multiple conditions. Explain what the query is intended to do.

Retrieve name, loan amount and account balance of the persons who have applied for loan amount greater than 20000 and less than 100000 and having the loan amount less than sum of loan assets and account balance.



10) Write a SQL query that joins four tables using any type of join and uses both an arithmetic and special operator. Explain what the query is intended to do.

Retrieve person name which ends with letter 'a', account number, city of the branch in which he/she has account and total number of branches for the bank having half the account balance of the person greater than or equal to 2000.

