

East West University Department of Computer Science and Engineering

CSE 301 LAB – LAB 03 (Solution) Course Instructor: Dr. Mohammad Rezwanul Huq

SOLUTION:

1) Find all branch names and cities with assets more than 1000000.

select branch_name, branch_city from branch where assets > 1000000;

BRANCH_NAME BRANCH_CITY

Redwood Palo Alto
Perryridge Horseneck
Round Hill Horseneck
North Town Rye
Brighton Brooklyn

2) Find all account_numbers and their balance which are opened in 'Downtown' branch or which have balance in between 600 and 750.

select account_number, balance from account where branch_name = 'Downtown' or balance between 600 and 750;

ACCOUNT_NUMBER		BALANCE
A-101	500	
A-215	700	
A-222	700	
A-217	750	
A-444	625	

3) Find all account numbers which are opened in a branch located in 'Rye' city.

select account_number from account natural join branch where branch_city =
'Rye';

ACCOUNT_NUMBER

A-333

A-444

4) Find all loan numbers which have amount greater than or equal to 1000 and their customers are living in 'Harrison' city.

Select loan.loan_number from borrower, loan, customer where amount >= 1000 and customer_city = 'Harrison' and loan.loan_number = borrower.loan_number and borrower.customer_name = customer.customer_name;

LOAN NUMBER

L-17

L-15

5) Display the account related information based on the descending order of the balance.

select * from from account order by balance desc;

ACCOUNT	NUMBER	BRANCH	NAME	BALANCE

A-201	Perryridge	900
A-333	Central	850
A-217	Brighton	750
A-215	Mianus	700
A-222	Redwood	700
A-444	North Town	625
A-101	Downtown	500
A-102	Perryridge	400
A-305	Round Hill	350

6) Display the customer related information in alphabetic order of customer cities.

select * from customer order by customer_city;

CUSTOMER NAME CUSTOMER STR CUSTOMER CITY

Brooks Brooklyn Senator Main Harrison Hayes Jones Main Harrison Johnson Alma Palo Alto Adams Pittsfield Spring Lindsay Park Pittsfield Williams Nassau Princeton Curry North Rye McBride Safety Rye Smith Main Rye Majeris First Rye Jackson University Salt Lake Walnut Stamford Green

Turner Putnam Stamford Glenn Sand Hill Woodside

7) Find all customer names who have an account as well as a loan.

select customer_name from depositor intersect select customer_name from borrower;

CUSTOMER NAME

Hayes

Jones

Smith

8) Find all customer related information who have an account or a loan.

select customer_name, customer_street, customer_city from depositor natural join customer union select customer_name, customer_street, customer_city from borrower natural join customer;

CUSTOMER NAME CUSTOMER STR CUSTOMER CITY

Adams	Spring	Pittsfield
Curry	North	Rye
Hayes	Main	Harrison
Jackson	Universi	ty Salt Lake
Johnson	Alma	Palo Alto
Jones	Main	Harrison
Lindsay	Park	Pittsfield
Majeris	First	Rye
McBride	Safety	Rye
Smith	Main	Rye
Turner	Putnam	Stamford
Williams	Nassau	Princeton

9) Find all customer names and their cities who have a loan but not an account.

select customer_name, customer_city from borrower natural join customer minus select customer_name, customer_city from depositor natural join customer;

CUSTOMER_NAME CUSTOMER_CITY

A 1

Adams Pittsfield

Curry Rye

Jackson Salt Lake

McBride Rye Williams Princeton

10) Find the total assets of all branches.

select sum(assets) from branch;

SUM(ASSETS)

24600480

11) Find the average balance of accounts at each branch.

select branch_name, avg(balance) from account group by branch_name;

BRANCH	NAME	AVG	(BAL	ANCE)

Round Hill	350
Mianus	700
Perryridge	650
Redwood	700
Brighton	750
Central	850
Downtown	500
North Town	625

12) Find the average balance of accounts at each branch city.

select branch_city, avg(balance) from account natural join branch group by branch_city;

BRANCH_CITY AVG(BALANCE)

Horseneck	587.:
Brooklyn	625
Palo Alto	700
Rye	737.5

13) Find the lowest amount of loan at each branch.

select branch_name, min(amount) from loan group by branch_name;

BRANCH NAME MIN(AMOUNT

Round Hill 900 Mianus 500

Perryridge	1300
Redwood	2000
Central	570
Downtown	1000
North Town	7500

14) Find the total number of loans at each branch.

select branch_name, count(loan_number) from loan group by branch_name;

BRANCH_NAME	COUNT(LOAN_NUMBER)

Round Hill	1
Mianus	1
Perryridge	2
Redwood	1
Central	1
Downtown	2
North Town	1

15) Find the customer name and account number of the account which has the highest balance.

select customer_name, account_number from depositor natural join account where balance = (select max(balance) from account);

CUSTOMER_NAME ACCOUNT_NUMBER

Johnson A-201