

CSE302 (Section 2) [Spring 2022]

Lab Assignment Submission Report

Assignment Title: LAB 05

Submitted by:

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1. Screenshots

Problem 1:

Without subqueries:

With subqueries:

Problem 2:

Without subqueries:

With subqueries:

Problem 3:

Without 'Having' clause:

With 'Having' clause:

Problem 4:

Without 'Having' clause:

With 'Having' clause:

Problem 5:

Without 'All' keyword:

With 'All' keyword:

Problem 6:

Without 'All' keyword:

With 'All' keyword:

Problem 7:

With 'In' keyword:

```
SQL> select distinct branch_name, branch_city
 2 from account natural join branch
 3 where branch_name IN(select branch_name
 4 from loan natural join branch);
BRANCH NAME
               BRANCH_CITY
Downtown
               Brooklyn
Perryridge
               Horseneck
Round Hill
               Horseneck
North Town
               Rye
Redwood
               Palo Alto
Central
               Rye
               Horseneck
Mianus
```

With 'Exists' keyword:

```
SQL> select distinct b.branch_name, b.branch_city
 2 from account a, branch b
 3 where a.branch name=b.branch name and Exists(select distinct b.branch name, b.branch city
 4 from loan 1, branch b
 5 where 1.branch name=b.branch name and a.branch name=1.branch name);
Branch_name
               BRANCH_CITY
Downtown Brooklyn
Perryridge Horseneck
               Horseneck
Round Hill
               Horseneck
North Town
               Rye
                Palo Alto
Redwood
Central
                Rye
Mianus
               Horseneck
```

Problem 8:

With 'Not In' keyword:

```
SQL> select distinct branch_name, branch_city
2 from account natural join branch
3 where branch_name NOT IN(select branch_name
4 from loan natural join branch);

BRANCH_NAME BRANCH_CITY
------Brighton Brooklyn
```

With 'Not Exists' keyword:

Problem 9:

Without 'With' clause:

With 'With' clause:

Problem 10:

Without 'With' clause:

With 'With' clause:

2. Learning outcomes:

From this lab I have learned how to write subquery commands. There are three types of method for doing subqueries. The clauses of three types of methods are 'Select', 'From', 'Where'. 'ALL\Not All', 'In\Not In', 'Exists\Not Exists' are the keywords for writing 'Where' clause subquery command. I have learned the using of 'From' clause in doing subqueries. I have learned to do complex queries by using 'With' clause which really helps us to do complex queries much easily.