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Practical Assignment No: 01

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Commands:

1. Create:

Create table of department.

```
SQL> Create table department(dept_id char(10),dept_name char(20),location char(3
0), primary key(dept_id> );
Table created.
```

2. Desc:

Display all attributes of department table.

```
      SQL> desc department;
      Null? Type

      Name
      Null? Type

      DEPT_ID
      NOT NULL CHAR(10)

      DEPT_NAME
      CHAR(20)

      LOCATION
      CHAR(30)

      SQL>
```

3. Insert into:

The INSERT INTO statement is used to insert new records in a table.

```
SQL> insert into department values('101','Computer','H Wing');
1 row created.
SQL> insert into department values('201','Chemical','A Wing');
1 row created.
```

4. Delete:

The DELETE statement is used to delete existing records in a table.

Delete computer department from department table.

5. Drop:

The DROP TABLE statement is used to drop an existing table in a database.

```
SQL> drop table department;
Table dropped.
```

6. Select:

The SELECT statement is used to select data from a database.

Query: Find the names of all branches in the loan relation.

7. Select distinct:

Query: Find the different branch name in the loan relation.

8.

Query: Find loan number ,branch name amount*100 from loan relation.

	loan_number,branch_	_name,amount*100	from loan;	
LOAN_NUMBER		BRANCH_NAME	AMOUNT*100	
L-11 L-14 L-15 L-16 L-17 L-23 L-93		Round Hill Downtown Perryridge Perryridge Downtown Redwood Mianus	90000 150000 150000 150000 130000 100000 200000 50000	
7 rows selec	ted.			

9.And:

Query: Find all loan_numbers, from loan made at the perryridge branch with loan amount greater than 1200.

SQL> select loan_number,branch ge' and amount>1200;	_name,amount from	loan where	branch_name='Perryrid
LOAN_NUMBER	BRANCH_NAME	AMOUNT	
 L–15 L–16	Perryridge	 1500	
L-16	Perryridge	1300	

10. Alter table:

Query: Add attribute location and dept_id to department table.

```
SQL> alter table department add loacation char(30), dept_id char(30); alter table department add loacation char(30), dept_id char(30)

ERROR at line 1:
ORA-01735: invalid ALTER TABLE option

SQL> alter table department add loacation char(30), dept_id char(30); alter table department add loacation char(30), dept_id char(30)

ERROR at line 1:
ORA-01735: invalid ALTER TABLE option

SQL> alter table department add loacation char(30);

Table altered.

SQL> alter table department add dept_id char(30);

Table altered.
```

11.

Query: Find all customers who have loan from the bank .Find their names, loan numbers and amount.

CUSTOMER_NAME	LOAN_NUMBER
 Idams	L-16
Curry	L-93
layes	L-15
Jackson	L-14
Jones	L-17
Smith	L-11
Smith	L-23
Villiams	L-17

12. Like:

Query: Find the names of all customers whose street address includes substring 'main'.

13. Union:

Query: To find all bank customers having a loan, account or both at the bank.

```
SQL> select customer_name from borrower union select customer_name from deposito
CUSTOMER_NAME
Adams
Curry
Hayes
layes
Jackson
Johnson
Jones
Jones
Lindsay
Smith
Smith
CUSTOMER_NAME
Turner
Williams
13 rows selected.
```

14. Intersection:

Query: Find all customers who have loan an account at the bank.

15. Minus:

Query: Find all customers who have an account but no loan at the bank.

```
SQL> select customer_name from depositor minus select customer_name from borrower;

CUSTOMER_NAME

Hayes
Johnson
Jones
Lindsay
Smith
Turner
6 rows selected.
```

16. Some:

Query: Find the names of all branches that have assets greater than those of at least one branch located in "Brooklyn".

```
SQL> select branch_name from branch where assets>some(select assets from branch where branch_city='Brooklyn');

BRANCH_NAME
------
Downtown
Round Hill
```

17. Average:

Query: Find average account balance at the Perry ridge Branch

18.Count:

Query: find numbers of customers in customer relation.

```
SQL> select count(*) from customer;

COUNT(*)

12
```

19. Group by:

Query: find numbers of depositors for each branch.

20. Having:

Query: Find the names of all branches where average account balance is more than \$1200.

21. Order by:

Query: List in alphabetical order of names of customers having a loan in Perry ridge branch.

22. Update:

Query: Change location of chemical department as B.

```
SQL> select * from department;
DEPARTMENT_NAME
                                LOACATION
DEPT_ID
Chemical
210
Computer
SQL> upate department set loacation='B' where dept_id='210';
SP2-0734: unknown command beginning "upate depa..." — rest of line ignored.
SQL> update department set loacation='B' where dept_id='210';
1 row updated.
SQL> select * from department;
DEPARTMENT_NAME
                                LOACATION
DEPT_ID
Chemical
                                В
210
Computer
```

23. Rename

Query: Rename location as dept_loc.

```
SQL> desc department;
Name

Null? Type

DEPARTMENT_NAME

LOACATION

DEPT_ID

Char(30)

CHAR(30)
```

24. Sum:

Query: Find total sum of balance at Brighton branch.

25. Min and Max:

Query: Find minimum and maximum balance from Brighton branch.

```
SQL> select * from account;
ACCOUNT_NUMBER
                  BRANCH_NAME
                                               BALANCE
                  Downtown
Perryridge
Brighton
Mianus
                                                    400
900
700
                   Brighton
                                                    700
350
                   Redwood
Round Hill
  rows selected.
SQL> SELECT MAX(balance) from account where branch_name='Brighton';
MAX(BALANCE)
          900
      SELECT min(balance) from account where branch_name='Brighton';
MIN(BALANCE)
          750
SQL>
```