EX NO 1

SQL BASIC COMMANDS

AIM: To write SQL queries to execute basic SQL commands.

```
QUERIES:
                           SQL> DESC FRIENDS;
                                              Null? Type
  1)CREATE TABLE
                                              NOT NULL VARCHAR2(5)
  CREATE TABLE emp
                                              NOT NULL VARCHAR2(30)
                           CITY
                                              NOT NULL CHAR(35)
                           COUNTRY
                                              NOT NULL VARCHAR2(30)
  (
                           HOUSENO
                                              NOT NULL NUMBER(12)
                           OCCUPATION
                                             NOT NULL VARCHAR2(30)
       empno
                           SALARY
                                                  NUMBER(12)
  NUMBER.
       empname VARCHAR2(255),
       DOB DATE,
       salary NUMBER,
       designation VARCHAR2(20)
  );
SQL> CREATE TABLE FRIENDS
  2
           ID VARCHAR2(5) NOT NULL,
  3
           NAME VARCHAR2(30) NOT NULL,
  4
           CITY CHAR(35) NOT NULL,
  5
           COUNTRY VARCHAR2(30) NOT NULL,
  6
           HOUSENO NUMBER(12) NOT NULL,
  7
           OCCUPATION VARCHAR2(30) NOT NULL,
  8
  9
           SALARY NUMBER(12)
 10
      );
Table created.
```

2)INSERT VALUES

Query: INSERT INTO emp VALUES(100,'John',50000,'ceo');

```
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Table created.
SQL> INSERT INTO FRIENDS VALUES('F1', 'MONICA', 'MUMBAI', 'INDIA', '20', 'CHEF', '50000');
1 row created.
SQL> INSERT INTO FRIENDS VALUES('F2', 'RACHEL', 'MUMBAI', 'INDIA', '20', 'STYLIST', '60000');
1 row created.
SQL> INSERT INTO FRIENDS VALUES('F3', 'PHOEBE', 'MUMBAI', 'INDIA', '18', 'MASSEUSE', '30000');
1 row created.
SQL> INSERT INTO FRIENDS VALUES('F4', 'CHANDLER', 'MUMBAI', 'INDIA', '19', 'DATAANALYST', '80000');
1 row created.
SQL> INSERT INTO FRIENDS VALUES('F5', 'JOEY', 'MUMBAI', 'INDIA', '19', 'ACTOR', '10000');
1 row created.
SQL> INSERT INTO FRIENDS VALUES('F6', 'ROSS', 'MUMBAI', 'INDIA', '21', 'PROFESSOR', '70000');
1 row created.
SQL> INSERT INTO FRIENDS VALUES('F7', 'MIKE', 'MUMBAI', 'INDIA', '18', 'WRITER', '50000');
1 row created.
SQL> INSERT INTO FRIENDS VALUES('F8', 'URSULA', 'MUMBAI', 'INDIA', '10', 'WAITRESS', '25000');
1 row created.
```

3)DISPLAY VALUES

Query : SELECT * FROM emp;

RA387 DBMS ex1.lst - Notepad File Edit Format View Help 1 row created.	
SQL> SELECT * FROM FRIENDS;	
ID NAME	CITY
COUNTRY	HOUSENO OCCUPATION
SALARY	
F1 MONICA INDIA 50000	MUMBAI 20 CHEF
F2 RACHEL INDIA 60000	MUMBAI 20 STYLIST
ID NAME	CITY
COUNTRY	HOUSENO OCCUPATION
SALARY	
F3 PHOEBE INDIA	MUMBAI
30000	18 MASSEUSE
F4 CHANDLER INDIA	MUMBAI 19 DATAANALYST
ID NAME	CITY
COUNTRY	HOUSENO OCCUPATION
SALARY 80000	
4	

ID	NAME	CITY
COUNT		HOUSENO OCCUPATION
S	SALARY	
	80000	
	JOEY	MUMBAI
INDIA	10000	19 ACTOR
F6	ROSS	MUMBAI
ID	NAME	CITY
COUNT	rry	HOUSENO OCCUPATION
S	SALARY	
INDIA	70000	21 PROFESSOR
	MIKE	MUMBAI
INDIA	50000	18 WRITER
ID	NAME	CITY
COUNT	rry	HOUSENO OCCUPATION
S	SALARY	
F8 INDIA	URSULA \ 25000	MUMBAI 10 WAITRESS

4)MODIFY VALUES

UPDATE emp **SET** salary = salary + 1000;

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SQL> UPDATE FRIENDS SET SALARY = SALARY+10000;			
8 rows updated.			
SQL> SELECT * FROM FRIENDS;			
ID NAME	CITY		
COUNTRY	HOUSENO OCCUPATION		
SALARY			
F1 MONICA INDIA 60000	MUMBAI 20 CHEF		
F2 RACHEL INDIA 70000	MUMBAI 20 STYLIST		
ID NAME	CITY		
COUNTRY	HOUSENO OCCUPATION		
SALARY			
F3 PHOEBE INDIA 40000	MUMBAI 18 MASSEUSE		
F4 CHANDLER INDIA	MUMBAI 19 DATAANALYST		
ID NAME	CITY		
COUNTRY	HOUSENO OCCUPATION		
SALARY			

5)DELETE VALUES

DELETE FROM emp WHERE empno = 100;

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SQL> DELETE FROM FRIENDS WHERE ID	= 'F8';
1 row deleted.	
SQL> SELECT * FROM FRIENDS;	
ID NAME	сіту
COUNTRY	HOUSENO OCCUPATION
SALARY	
F1 MONICA INDIA	MUMBAI
60000	20 CHEF
F2 RACHEL INDIA	MUMBAI 20 STYLIST
70000	20 3111131
ID NAME	сіту
COUNTRY	HOUSENO OCCUPATION
SALARY	
F3 PHOEBE	MUMBAI
INDIA 40000	18 MASSEUSE
F4 CHANDLER	MUMBAI
INDIA	19 DATAANALYST
ID NAME	СІТУ
COUNTRY	HOUSENO OCCUPATION
SALARY	
90000	
F5 JOEY INDIA	MUMBAI 19 ACTOR
20000	15 ACTOR
F6 ROSS	MUMBAI
ID NAME	СІТУ
COUNTRY	HOUSENO OCCUPATION
SALARY	
INDIA 80000	21 PROFESSOR
F7 MIKE	MUMBAI
INDIA 60000	18 WRITER
00000	

DDL COMMANDS

AIM: To write the SQL queries using DDL Commands with and without constraints.

```
QUERIES:

1)CREATE THE TABLE (with no constraint)

CREATE TABLE emp
(
    empno NUMBER,
    empname VARCHAR2(25),
    dob DATE,
    salary NUMBER,
    designation VARCHAR2(20)
);

Query: DESC emp;
```

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```
SQL> DESC FRIENDS;
                                             Null?
 Name
                                                      Type
                                             NOT NULL VARCHAR2(5)
 ID
                                             NOT NULL VARCHAR2(30)
 NAME
                                             NOT NULL CHAR(35)
 CITY
                                             NOT NULL VARCHAR2(30)
 COUNTRY
                                             NOT NULL NUMBER(12)
 HOUSENO
 OCCUPATION
                                             NOT NULL VARCHAR2(30)
 SALARY
                                                      NUMBER(12)
```

2)ALTER TABLE - ADD

QUERY: ALTER TABLE emp ADD department VARCHAR2(50);

SQL> ALTER TABLE FRIENDS ADD PARTNER VARCHAR2(30);

Table altered.

Name	Nu1	1.7	Type
ID	NOT	NULL	VARCHAR2(5)
NAME	NOT	NULL	VARCHAR2(30)
CITY	NOT	NULL	CHAR(35)
COUNTRY	NOT	NULL	VARCHAR2(30)
HOUSENO	NOT	NULL	NUMBER(12)
OCCUPATION	NOT	NULL	VARCHAR2(30)
SALARY			NUMBER(12)
PARTNER			VARCHAR2(30)

3)ALTER TABLE - MODIFY

QUERY: ALTER TABLE emp MODIFY (department VARCHAR2(10));

SQL> ALTER TABLE FRIENDS MODIFY(PARTNER VARCHAR2(60));

Table altered.

SQL> DESC FRIENDS;

Name	Null?	Type
ID	NOT NULI	VARCHAR2(5)
NAME	NOT NULI	VARCHAR2(30)
CITY	NOT NULI	CHAR(35)
COUNTRY	NOT NULI	VARCHAR2(30)
HOUSENO	NOT NULI	NUMBER(12)
OCCUPATION	NOT NULI	VARCHAR2(30)
SALARY		NUMBER(12)
PARTNER		VARCHAR2(60)

4)ALTER TABLE - DROP

QUERY: ALTER TABLE emp DROP(department);

SQL> ALTER TABLE FRIENDS DROP(PARTNER);

Table altered.

SOL>	DESC	FRIENDS;	
------	------	----------	--

Name	Null?	Туре
ID	NOT NULL	VARCHAR2(5)
NAME	NOT NULL	VARCHAR2(30)
CITY	NOT NULL	CHAR(35)
COUNTRY	NOT NULL	VARCHAR2(30)
HOUSENO	NOT NULL	NUMBER(12)
OCCUPATION	NOT NULL	VARCHAR2(30)
SALARY		NUMBER(12)

5)ALTER TABLE - RENAME

QUERY: ALTER TABLE emp RENAME TO emp1;

```
SQL> ALTER TABLE FRIENDS RENAME TO FRIENDSS;
```

Table altered.

SQL> DESC FRIENDSS;

Name	Null?	Туре
ID	NOT NULL	VARCHAR2(5)
NAME	NOT NULL	VARCHAR2(30)
CITY	NOT NULL	CHAR(35)
COUNTRY	NOT NULL	VARCHAR2(30)
HOUSENO	NOT NULL	NUMBER(12)
OCCUPATION	NOT NULL	VARCHAR2(30)
SALARY		NUMBER(12)

6) DROP TABLE

QUERY: DROP TABLE emp1;

```
SQL> DESC MYFAMILY;
Name
                                         Null? Type
                                         NOT NULL VARCHAR2(5)
NAME
                                         NOT NULL VARCHAR2(30)
CITY
                                         NOT NULL CHAR(35)
OCCUPATION
                                        NOT NULL VARCHAR2(30)
                                        NOT NULL VARCHAR2(30)
RELATION
SQL> DROP TABLE FAMILY
SQL> DROP TABLE FAMILY;
DROP TABLE FAMILY
ERROR at line 1:
ORA-00942: table or view does not exist
SQL> DROP TABLE MYFAMILY;
Table dropped.
SQL> spool off
```

RESULT: Thus the basic SQL and DDL queries were successfully executed and verified.

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