

EX NO 1

SQL BASIC COMMANDS

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

QUERIES:

1)CREATE TABLE

CREATE TABLE emp

(

empno

NUMBER,

empname VARCHAR2(255),

DOB DATE,

salary NUMBER,

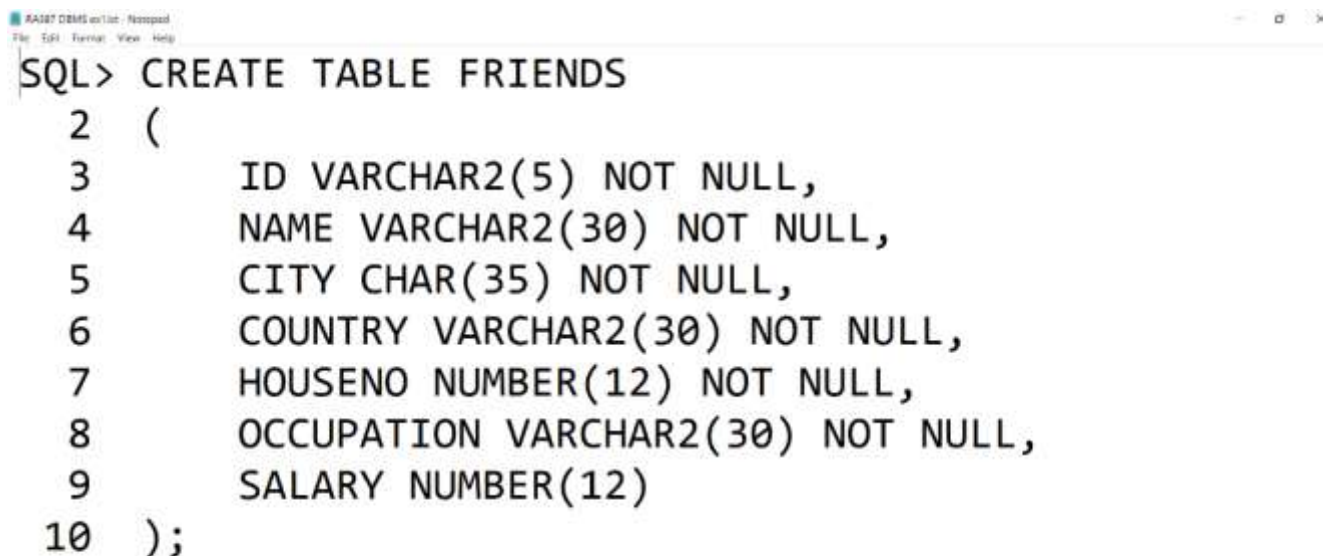
designation VARCHAR2(20)

);



SQL> DESC FRIENDS;

Name	Null?	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)



```
SQL> CREATE TABLE FRIENDS
2  (
3      ID VARCHAR2(5) NOT NULL,
4      NAME VARCHAR2(30) NOT NULL,
5      CITY CHAR(35) NOT NULL,
6      COUNTRY VARCHAR2(30) NOT NULL,
7      HOUSENO NUMBER(12) NOT NULL,
8      OCCUPATION VARCHAR2(30) NOT NULL,
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;**

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1 row created.

SQL> SELECT * FROM FRIENDS;

ID	NAME	CITY

COUNTRY	HOUSENO	OCCUPATION

SALARY		

F1	MONICA	MUMBAI
INDIA	20	CHEF
50000		

F2	RACHEL	MUMBAI
INDIA	20	STYLIST
60000		

ID	NAME	CITY

COUNTRY	HOUSENO	OCCUPATION

SALARY		

F3	PHOEBE	MUMBAI
INDIA	18	MASSEUSE
30000		

F4	CHANDLER	MUMBAI
INDIA	19	DATAANALYST

ID	NAME	CITY

COUNTRY	HOUSENO	OCCUPATION

SALARY		

80000		

ID	NAME	CITY

COUNTRY	HOUSENO	OCCUPATION

SALARY		

F5	JOEY	MUMBAI
INDIA	19	ACTOR
10000		
F6	ROSS	MUMBAI

ID	NAME	CITY

COUNTRY	HOUSENO	OCCUPATION

SALARY		

INDIA	21	PROFESSOR
70000		
F7	MIKE	MUMBAI
INDIA	18	WRITER
50000		

ID	NAME	CITY

COUNTRY	HOUSENO	OCCUPATION

SALARY		

F8	URSULA	MUMBAI
INDIA	10	WAITRESS
25000		

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	MUMBAI
INDIA	20	CHEF
60000		
F2	RACHEL	MUMBAI
INDIA	20	STYLIST
70000		
ID	NAME	CITY

COUNTRY	HOUSENO	OCCUPATION

SALARY		


F3	PHOEBE	MUMBAI
INDIA	18	MASSEUSE
40000		
F4	CHANDLER	MUMBAI
INDIA	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	CITY
COUNTRY	HOUSENO	OCCUPATION

SALARY		

F1	MONICA	MUMBAI
INDIA	20	CHEF
60000		
F2	RACHEL	MUMBAI
INDIA	20	STYLIST
70000		
ID	NAME	CITY
COUNTRY	HOUSENO	OCCUPATION

SALARY		

F3	PHOEBE	MUMBAI
INDIA	18	MASSEUSE
40000		
F4	CHANDLER	MUMBAI
INDIA	19	DATAANALYST
ID	NAME	CITY
COUNTRY	HOUSENO	OCCUPATION

SALARY		

90000		
F5	JOEY	MUMBAI
INDIA	19	ACTOR
20000		
F6	ROSS	MUMBAI
ID	NAME	CITY
COUNTRY	HOUSENO	OCCUPATION

SALARY		

INDIA	21	PROFESSOR
80000		
F7	MIKE	MUMBAI
INDIA	18	WRITER
60000		

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;

Name	Null?	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)

2)ALTER TABLE – ADD

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

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

Table altered.

```
SQL> DESC FRIENDS;
```

Name	Null?	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 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(60)

4)ALTER TABLE – DROP

QUERY : ALTER TABLE emp DROP(department);

```
SQL> ALTER TABLE FRIENDS DROP(PARTNER);
```

Table altered.

```
SQL> DESC FRIENDS;
```

Name	Null?	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)

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?	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)

6)DROP TABLE

QUERY : DROP TABLE emp1;

```
SQL> DESC MYFAMILY;
```

Name	Null?	Type
-----	-----	-----
ID	NOT NULL	VARCHAR2(5)
NAME	NOT NULL	VARCHAR2(30)
CITY	NOT NULL	CHAR(35)
OCCUPATION	NOT NULL	VARCHAR2(30)
RELATION	NOT NULL	VARCHAR2(30)

```
SQL> DROP TABLE FAMILY
```

```
2
```

```
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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