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# Sql1

1. DDL (CREATE, ALTER, DROP, TRUNCATE)
2. DML (INSERT, UPDATE, DELETE)
3. DQL (SELECT)
4. DCL (GRANT, REVOKE)

KEYWORDS AND IDENTIERS ARE CASE INSENSITIVE

LITERALS ARE CASE SENSITIVE

DROP TABLE PERSON;

CREATE TABLE PERSON(ID NUMBER, FIRST\_NAME VARCHAR2(90), AGE NUMBER);

Table PERSON created.

INSERT INTO PERSON VALUES(1, 'VIJAY', 22);

1 row inserted.

INSERT INTO PERSON VALUES(2, 'MANU', 25);

INSERT INTO PERSON VALUES(3, 'ARUN', 26);

INSERT INTO PERSON VALUES(4, 'KUMAR', 28);

INSERT INTO PERSON VALUES(5, 'KIRAN', 25);

INSERT INTO PERSON VALUES(6, 'JYOTHI', 20);

INSERT INTO PERSON VALUES(7, 'RAMU', 35);

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

INSERT INTO PERSON VALUES(7, 'RAMU', 35);

1 row inserted.

INSERT INTO PERSON(ID, FIRST\_NAME) VALUES(8, 'MURALI');

1 row inserted.

INSERT INTO PERSON(ID, AGE) VALUES(9, 45);

1 row inserted.

INSERT INTO PERSON(FIRST\_NAME, AGE) VALUES('MOHAN', 45);

1 row inserted.

INSERT INTO PERSON(AGE) VALUES(45);

1 row inserted.

INSERT INTO PERSON(AGE, ID) VALUES(45, 12);

1 row inserted.

INSERT INTO PERSON(AGE, ID, FIRST\_NAME) VALUES(48, 13, 'RAGHU');

1 row inserted.

INSERT INTO PERSON(AGE, FIRST\_NAME, ID) VALUES(48, 'RUPA', 14);

1 row inserted.

UPDATE PERSON SET FIRST\_NAME='RAVI' WHERE ID = 5;

1 row updated.

UPDATE PERSON SET FIRST\_NAME='RAMANA', AGE=33 WHERE ID = 6;

1 row updated.

UPDATE PERSON SET ID=25, AGE=38 WHERE ID = 7;

2 rows updated.

UPDATE PERSON SET AGE=28 WHERE AGE IS NULL;

1 row updated.

UPDATE PERSON SET AGE=38 WHERE FIRST\_NAME IS NOT NULL;

12 rows updated.

UPDATE PERSON SET FIRST\_NAME='ANU' WHERE ID > 4;

9 rows updated.

UPDATE PERSON SET AGE=22, ID = 10 WHERE ID <= 7;

6 rows updated.

UPDATE PERSON SET AGE=42, ID = 15;

15 rows updated.

DELETE FROM PERSON WHERE ID = 6;

0 rows deleted.

DELETE FROM PERSON WHERE FIRST\_NAME = 'KUMAR';

1 row deleted.

DELETE FROM PERSON WHERE FIRST\_NAME = 'ANU';

9 rows deleted.

DELETE FROM PERSON;

5 rows deleted.

DROP TABLE PERSON;

# Sql2

CREATE TABLE EMPLOYEE (ID NUMBER, FIRST\_NAME VARCHAR2(90), LAST\_NAME VARCHAR2(90), AGE NUMBER, SALARY NUMBER, EMAIL VARCHAR2(90));

INSERT INTO EMPLOYEE VALUES(1, 'RAMU', 'BTM', 22, 4000, 'R@G.IN');

INSERT INTO EMPLOYEE VALUES(2, 'RAVI', 'RAO', 24, 3000, 'R@G.IN');

INSERT INTO EMPLOYEE VALUES(3, 'MANU', 'BTM', 23, 5000, 'M@G.IN');

INSERT INTO EMPLOYEE VALUES(4, 'MURALI', 'RAO', 26, 5500, 'M@G.IN');

INSERT INTO EMPLOYEE VALUES(5, 'RAGHU', 'JD', 25, 2000, 'R@G.IN');

INSERT INTO EMPLOYEE VALUES(6, 'PAVAN', 'NAO', 28, 3500, 'P@G.IN');

INSERT INTO EMPLOYEE VALUES(7, 'ANU', 'JP', 21, 6000, 'A@G.IN');

INSERT INTO EMPLOYEE VALUES(8, 'SWETHA', 'NAO', 29, 5600, 'W@G.IN');

INSERT INTO EMPLOYEE VALUES(9, 'SUNITHA', 'JD', 32, 7000, 'SU@G.IN');

INSERT INTO EMPLOYEE VALUES(10, 'KIRAN', 'JP', 30, 5300, 'K@G.IN');

SELECT \* FROM EMPLOYEE;

SELECT \* FROM EMPLOYEE WHERE ID = 5;

SELECT \* FROM EMPLOYEE WHERE ID > 5;

SELECT \* FROM EMPLOYEE WHERE AGE BETWEEN 22 AND 28;

SELECT \* FROM EMPLOYEE WHERE AGE NOT BETWEEN 22 AND 28;

SELECT \* FROM EMPLOYEE WHERE SALARY IN (4000, 5500, 7000);

SELECT \* FROM EMPLOYEE WHERE SALARY NOT IN (4000, 5500, 7000);

SELECT \* FROM EMPLOYEE WHERE FIRST\_NAME LIKE '%R%';

SELECT FIRST\_NAME, AGE FROM EMPLOYEE;

SELECT FIRST\_NAME, AGE, EMAIL FROM EMPLOYEE;

SELECT FIRST\_NAME, ID, AGE FROM EMPLOYEE;

SELECT FIRST\_NAME, AGE, LAST\_NAME FROM EMPLOYEE;

SELECT FIRST\_NAME AS MYNAME, AGE, LAST\_NAME FROM EMPLOYEE;

SELECT FIRST\_NAME AS MYNAME, AGE AS MYAGE, LAST\_NAME FROM EMPLOYEE;

SELECT FIRST\_NAME MYNAME, AGE, LAST\_NAME FROM EMPLOYEE;

SELECT FIRST\_NAME MYNAME, AGE MYAGE, LAST\_NAME FROM EMPLOYEE;

SELECT COUNT(\*) FROM EMPLOYEE;

SELECT COUNT(\*) AS "RECORDS COUNT" FROM EMPLOYEE;

SELECT COUNT(\*) "RECORDS COUNT" FROM EMPLOYEE;

SELECT COUNT(AGE) "RECORDS COUNT" FROM EMPLOYEE;

SELECT COUNT(LAST\_NAME) "RECORDS COUNT" FROM EMPLOYEE;

SELECT MAX(AGE) FROM EMPLOYEE;

SELECT MAX(AGE) AS "MAX AGE" FROM EMPLOYEE;

SELECT MAX(AGE) "MAX AGE" FROM EMPLOYEE;

SELECT MAX(AGE) "MAX AGE" FROM EMPLOYEE;

SELECT MIN(SALARY) FROM EMPLOYEE;

SELECT MIN(SALARY) MIN\_SAL FROM EMPLOYEE;

SELECT MIN(SALARY) "MIN SAL" FROM EMPLOYEE;

SELECT AVG(SALARY) FROM EMPLOYEE;

SELECT AVG(SALARY) "AVG SALARY" FROM EMPLOYEE;

SELECT AVG(AGE) "AVG AGE" FROM EMPLOYEE;

SELECT MIN(FIRST\_NAME) FROM EMPLOYEE;

SELECT MAX(FIRST\_NAME) FROM EMPLOYEE;

SELECT \* FROM EMPLOYEE ORDER BY FIRST\_NAME;

SELECT \* FROM EMPLOYEE ORDER BY AGE;

SELECT \* FROM EMPLOYEE ORDER BY SALARY;

SELECT \* FROM EMPLOYEE ORDER BY AGE, SALARY;

SELECT \* FROM EMPLOYEE ORDER BY FIRST\_NAME ASC;

SELECT \* FROM EMPLOYEE ORDER BY AGE ASC;

SELECT \* FROM EMPLOYEE ORDER BY SALARY ASC;

SELECT \* FROM EMPLOYEE ORDER BY AGE, SALARY ASC;

SELECT \* FROM EMPLOYEE ORDER BY FIRST\_NAME DESC;

SELECT \* FROM EMPLOYEE ORDER BY AGE DESC;

SELECT \* FROM EMPLOYEE ORDER BY SALARY DESC;

SELECT \* FROM EMPLOYEE ORDER BY AGE, SALARY DESC;

//SELECT FIRST\_NAME, MAX(SALAY) FROM EMPLOYEE;

SELECT FIRST\_NAME FROM EMPLOYEE WHERE SALARY =

(SELECT MAX(SALARY) FROM EMPLOYEE);

SELECT FIRST\_NAME FROM EMPLOYEE WHERE AGE =

(SELECT MAX(AGE) FROM EMPLOYEE);

SELECT FIRST\_NAME FROM EMPLOYEE WHERE AGE =

(SELECT MIN(AGE) FROM EMPLOYEE);

SELECT FIRST\_NAME FROM EMPLOYEE WHERE SALARY <

(SELECT AVG(SALARY) FROM EMPLOYEE);

SELECT MAX(SALARY) FROM EMPLOYEE

WHERE SALARY < (SELECT MAX(SALARY) FROM EMPLOYEE);

SELECT MIN(SALARY) FROM EMPLOYEE

WHERE SALARY > (SELECT MIN(SALARY) FROM EMPLOYEE);

SELECT FIRST\_NAME FROM EMPLOYEE WHERE SALARY =

(SELECT MAX(SALARY) FROM EMPLOYEE;

WHERE SALARY < (SELECT MAX(SALARY) FROM EMPLOYEE));

SELECT \* FROM EMPLOYEE WHERE SALARY =

(SELECT MIN(SALARY) FROM EMPLOYEE;

WHERE SALARY > (SELECT MIN(SALARY) FROM EMPLOYEE));

SELECT ID, FIRST\_NAME, LAST\_NAME, AGE, SALARY, EMAIL,

RANK() OVER (ORDER BY SALARY DESC) FROM EMPLOYEE;

SELECT ID, FIRST\_NAME, LAST\_NAME, AGE, SALARY, EMAIL,

RANK() OVER (ORDER BY SALARY DESC) RANK FROM EMPLOYEE;

SELECT \* FROM (SELECT ID, FIRST\_NAME, LAST\_NAME, AGE, SALARY,

EMAIL, RANK() OVER(ORDER BY SALARY DESC) RANK FROM EMPLOYEE)

WHERE RANK = 3;

SELECT \* FROM (SELECT ID, FIRST\_NAME, LAST\_NAME, AGE, SALARY,

EMAIL, RANK() OVER(ORDER BY SALARY DESC) RANK FROM EMPLOYEE)

WHERE RANK = 5;

INSERT INTO EMPLOYEE VALUES(1, 'RAMU', 'BTM', 22, 4000, 'R@G.IN');

INSERT INTO EMPLOYEE VALUES(2, 'RAVI', 'RAO', 24, 3000, 'R@G.IN');

INSERT INTO EMPLOYEE VALUES(3, 'MANU', 'BTM', 23, 5000, 'M@G.IN');

INSERT INTO EMPLOYEE VALUES(4, 'MURALI', 'RAO', 26, 5500, 'M@G.IN');

INSERT INTO EMPLOYEE VALUES(5, 'RAGHU', 'JD', 25, 2000, 'R@G.IN');

INSERT INTO EMPLOYEE VALUES(6, 'PAVAN', 'NAO', 28, 3500, 'P@G.IN');

INSERT INTO EMPLOYEE VALUES(7, 'ANU', 'JP', 21, 6000, 'A@G.IN');

INSERT INTO EMPLOYEE VALUES(8, 'SWETHA', 'NAO', 29, 5600, 'W@G.IN');

INSERT INTO EMPLOYEE VALUES(9, 'SUNITHA', 'JD', 32, 7000, 'SU@G.IN');

INSERT INTO EMPLOYEE VALUES(10, 'KIRAN', 'JP', 30, 5300, 'K@G.IN');

INSERT INTO EMPLOYEE VALUES(1, 'RAMU', 'BTM', 22, 4000, 'R@G.IN');

INSERT INTO EMPLOYEE VALUES(2, 'RAVI', 'RAO', 24, 3000, 'R@G.IN');

INSERT INTO EMPLOYEE VALUES(3, 'MANU', 'BTM', 23, 5000, 'M@G.IN');

INSERT INTO EMPLOYEE VALUES(4, 'MURALI', 'RAO', 26, 5500, 'M@G.IN');

INSERT INTO EMPLOYEE VALUES(5, 'RAGHU', 'JD', 25, 2000, 'R@G.IN');

INSERT INTO EMPLOYEE VALUES(6, 'PAVAN', 'NAO', 28, 3500, 'P@G.IN');

INSERT INTO EMPLOYEE VALUES(7, 'ANU', 'JP', 21, 6000, 'A@G.IN');

INSERT INTO EMPLOYEE VALUES(8, 'SWETHA', 'NAO', 29, 5600, 'W@G.IN');

INSERT INTO EMPLOYEE VALUES(9, 'SUNITHA', 'JD', 32, 7000, 'SU@G.IN');

INSERT INTO EMPLOYEE VALUES(10, 'KIRAN', 'JP', 30, 5300, 'K@G.IN');

SELECT \* FROM EMPLOYEE;

SELECT ID, FIRST\_NAME, LAST\_NAME, AGE, EMAIL, SALARY, ROWNUM FROM EMPLOYEE;

SELECT \* FROM EMPLOYEE WHERE ROWNUM BETWEEN 10 AND 20;

SELECT \* FROM (SELECT ID, FIRST\_NAME, LAST\_NAME, AGE,

EMAIL, SALARY, ROWNUM AS RN FROM EMPLOYEE)

WHERE RN <= 10;

SELECT \* FROM (SELECT ID, FIRST\_NAME, LAST\_NAME, AGE,

EMAIL, SALARY, ROWNUM AS RN FROM EMPLOYEE)

WHERE RN BETWEEN 11 AND 20;

SELECT \* FROM (SELECT ID, FIRST\_NAME, LAST\_NAME, AGE,

EMAIL, SALARY, ROWNUM AS RN FROM EMPLOYEE)

WHERE RN BETWEEN 21 AND 30;

SELECT ID, FIRST\_NAME, LAST\_NAME, AGE, EMAIL, SALARY FROM EMPLOYEE;

SELECT DISTINCT ID, FIRST\_NAME, LAST\_NAME, AGE, EMAIL, SALARY FROM EMPLOYEE;

SELECT \* FROM EMPLOYEE GROUP BY

ID, FIRST\_NAME, LAST\_NAME, AGE, EMAIL, SALARY;

SELECT ID, FIRST\_NAME, LAST\_NAME, AGE,

EMAIL, SALARY, ROWID FROM EMPLOYEE;

SELECT MIN(ROWID) FROM EMPLOYEE;

SELECT MAX(ROWID) FROM EMPLOYEE;

DELETE FROM EMPLOYEE WHERE ROWID NOT IN

(SELECT MIN(ROWID) FROM EMPLOYEE GROUP BY

ID, FIRST\_NAME, LAST\_NAME, AGE, EMAIL, SALARY);

SELECT \* FROM EMPLOYEE;

# Sql3

DROP TABLE TAB1;

CREATE TABLE TAB1(ID NUMBER, NAME VARCHAR2(90), AGE NUMBER);

INSERT INTO TAB1(ID) VALUES(1);

INSERT INTO TAB1(ID, NAME) VALUES(2, 'ABC');

INSERT INTO TAB1(ID, AGE) VALUES(3, 33);

INSERT INTO TAB1(NAME, AGE) VALUES('RAMU', 44);

INSERT INTO TAB1(NAME) VALUES('MANU');

INSERT INTO TAB1(AGE) VALUES(25);

SELECT \* FROM TAB1;

DROP TABLE TAB2;

CREATE TABLE TAB2(ID NUMBER,

NAME VARCHAR2(90) NOT NULL,

AGE NUMBER);

INSERT INTO TAB2(ID) VALUES(1); //ERROR

INSERT INTO TAB2(ID, NAME) VALUES(2, 'ABC');

INSERT INTO TAB2(ID, AGE) VALUES(3, 33); //ERROR

INSERT INTO TAB2(NAME, AGE) VALUES('RAMU', 44);

INSERT INTO TAB2(NAME) VALUES('MANU');

INSERT INTO TAB2(AGE) VALUES(25);//ERROR

SELECT \* FROM TAB2;

DROP TABLE TAB3;

CREATE TABLE TAB3(ID NUMBER NOT NULL, NAME VARCHAR2(90) NOT NULL,

AGE NUMBER);

INSERT INTO TAB3(ID) VALUES(1); //ERROR

INSERT INTO TAB3(ID, NAME) VALUES(2, 'ABC');

INSERT INTO TAB3(ID, AGE) VALUES(3, 33); //ERROR

INSERT INTO TAB3(NAME, AGE) VALUES('RAMU', 44); //ERROR

INSERT INTO TAB3(NAME) VALUES('MANU'); //ERROR

INSERT INTO TAB3(AGE) VALUES(25);//ERROR

SELECT \* FROM TAB3;

DROP TABLE TAB4;

CREATE TABLE TAB4(ID NUMBER, NAME VARCHAR2(90), AGE NUMBER);

INSERT INTO TAB4(ID, NAME) VALUES(1, 'MANU');

INSERT INTO TAB4(ID, NAME) VALUES(1, 'MANU');

INSERT INTO TAB4(ID, NAME, AGE) VALUES(2, 'RAMU', 22);

INSERT INTO TAB4(ID, NAME, AGE) VALUES(2, 'RAMU', 22);

INSERT INTO TAB4(NAME, AGE) VALUES('RAMU', 22);

INSERT INTO TAB4(NAME, AGE) VALUES('RAMU', 22);

SELECT \* FROM TAB4;

DROP TABLE TAB5;

CREATE TABLE TAB5(ID NUMBER, NAME VARCHAR2(90) UNIQUE, AGE NUMBER);

INSERT INTO TAB5(ID, NAME) VALUES(1, 'MANU');

INSERT INTO TAB5(ID, NAME) VALUES(1, 'MANU'); //ERROR

INSERT INTO TAB5(ID, NAME, AGE) VALUES(2, 'RAMU', 22);

INSERT INTO TAB5(ID, NAME, AGE) VALUES(2, 'RAMU', 22);//ERROR

INSERT INTO TAB5(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB5(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB5(ID, AGE) VALUES(5, 22);

INSERT INTO TAB5(ID, AGE) VALUES(5, 22);

INSERT INTO TAB5(ID) VALUES(5);

INSERT INTO TAB5(AGE) VALUES(25);

SELECT \* FROM TAB5;

DROP TABLE TAB6;

CREATE TABLE TAB6(ID NUMBER, NAME VARCHAR2(90) UNIQUE,

AGE NUMBER UNIQUE);

INSERT INTO TAB6(ID, NAME) VALUES(1, 'MANU');

INSERT INTO TAB6(ID, NAME) VALUES(1, 'MANU'); //ERROR

INSERT INTO TAB6(ID, NAME, AGE) VALUES(2, 'RAMU', 22);

INSERT INTO TAB6(ID, NAME, AGE) VALUES(2, 'RAMU', 22);//ERROR

INSERT INTO TAB6(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB6(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB6(ID, AGE) VALUES(5, 22); //ERROR

INSERT INTO TAB6(ID, AGE) VALUES(5, 22); //ERROR

INSERT INTO TAB6(ID) VALUES(5);

INSERT INTO TAB6(AGE) VALUES(25);

SELECT \* FROM TAB6;

DROP TABLE TAB7;

CREATE TABLE TAB7(ID NUMBER, NAME VARCHAR2(90), AGE NUMBER,

CONSTRAINT TAB7\_UK1 UNIQUE(NAME), CONSTRAINT TAB7\_UK2 UNIQUE(AGE));

INSERT INTO TAB7(ID, NAME) VALUES(1, 'MANU');

INSERT INTO TAB7(ID, NAME) VALUES(1, 'MANU'); //ERROR

INSERT INTO TAB7(ID, NAME, AGE) VALUES(2, 'RAMU', 22);

INSERT INTO TAB7(ID, NAME, AGE) VALUES(2, 'RAMU', 22);//ERROR

INSERT INTO TAB7(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB7(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB7(ID, AGE) VALUES(5, 22); //ERROR

INSERT INTO TAB7(ID, AGE) VALUES(5, 22); //ERROR

INSERT INTO TAB7(ID) VALUES(5);

INSERT INTO TAB7(AGE) VALUES(25);

SELECT \* FROM TAB7;

DROP TABLE TAB8;

CREATE TABLE TAB8(ID NUMBER, NAME VARCHAR2(90), AGE NUMBER,

CONSTRAINT TAB8\_UK1 UNIQUE(NAME, AGE));

INSERT INTO TAB8(ID, NAME) VALUES(1, 'MANU');

INSERT INTO TAB8(ID, NAME) VALUES(1, 'MANU'); //ERROR

INSERT INTO TAB8(ID, NAME, AGE) VALUES(2, 'RAMU', 22);

INSERT INTO TAB8(ID, NAME, AGE) VALUES(2, 'RAMU', 23);

INSERT INTO TAB8(ID, NAME, AGE) VALUES(2, 'AMU', 23);

INSERT INTO TAB8(ID, NAME, AGE) VALUES(2, 'RAMU', 22);//ERROR

INSERT INTO TAB8(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB8(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB8(ID, AGE) VALUES(5, 22);

INSERT INTO TAB8(ID, AGE) VALUES(5, 22); //ERROR

INSERT INTO TAB8(ID) VALUES(5);

INSERT INTO TAB8(ID) VALUES(5);

INSERT INTO TAB8(ID) VALUES(5);

INSERT INTO TAB8(ID) VALUES(5);

INSERT INTO TAB8(AGE) VALUES(25);

SELECT \* FROM TAB8;

DROP TABLE TAB9;

CREATE TABLE TAB9(ID NUMBER, NAME VARCHAR2(90) PRIMARY KEY, AGE NUMBER);

INSERT INTO TAB9(ID, NAME) VALUES(1, 'MANU');

INSERT INTO TAB9(ID, NAME) VALUES(1, 'MANU'); //ERROR

INSERT INTO TAB9(ID, NAME, AGE) VALUES(2, 'RAMU', 22);

INSERT INTO TAB9(ID, NAME, AGE) VALUES(2, 'RAMU', 22);//ERROR

INSERT INTO TAB9(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB9(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB9(ID, AGE) VALUES(5, 22); //ERROR

INSERT INTO TAB9(ID, AGE) VALUES(5, 22); //ERROR

INSERT INTO TAB9(ID) VALUES(5); //ERROR

INSERT INTO TAB9(AGE) VALUES(25); //ERROR

INSERT INTO TAB9(NAME) VALUES('VIJAY');

SELECT \* FROM TAB9;

CREATE TABLE TAB10(ID NUMBER, NAME VARCHAR2(90) PRIMARY KEY,

AGE NUMBER PRIMARY KEY);

CREATE TABLE TAB11(ID NUMBER, NAME VARCHAR2(90), AGE NUMBER,

CONSTRAINT TAB11\_PK1 PRIMARY KEY(AGE));

INSERT INTO TAB11(ID, NAME) VALUES(1, 'MANU'); //ERROR

INSERT INTO TAB11(ID, NAME) VALUES(1, 'MANU'); //ERROR

INSERT INTO TAB11(ID, NAME, AGE) VALUES(2, 'RAMU', 22);

INSERT INTO TAB11(ID, NAME, AGE) VALUES(2, 'RAMU', 22);//ERROR

INSERT INTO TAB11(NAME, AGE) VALUES('RAMU', 22);//ERROR

INSERT INTO TAB11(NAME, AGE) VALUES('RAMU', 28);

INSERT INTO TAB11(ID, AGE) VALUES(5, 22); //ERROR

INSERT INTO TAB11(ID, AGE) VALUES(5, 28); //ERROR

INSERT INTO TAB11(ID) VALUES(5); //ERROR

INSERT INTO TAB11(AGE) VALUES(25);

INSERT INTO TAB11(NAME) VALUES('VIJAY'); //ERROR

SELECT \* FROM TAB11;

CREATE TABLE TAB12(ID NUMBER, NAME VARCHAR2(90), AGE NUMBER,

CONSTRAINT TAB12\_PK1 PRIMARY KEY(AGE, NAME));

INSERT INTO TAB12 VALUES(1, 'ABC', 22);

INSERT INTO TAB12 VALUES(2, 'ABC', 22);//ERROR

INSERT INTO TAB12 VALUES(3, 'ABC', 23);

INSERT INTO TAB12 VALUES(4, 'ABC1', 23);

INSERT INTO TAB12(ID, NAME) VALUES(5, 'XYZ'); //ERROR

INSERT INTO TAB12(ID, AGE) VALUES(6, 33); //ERROR

# Sql4

DROP TABLE STUDENT;

CREATE TABLE STUDENT(ID NUMBER,FIRST\_NAME VARCHAR2(90),

LAST\_NAME VARCHAR2(90), AGE NUMBER, EMAIL VARCHAR2(90));

CREATE TABLE ADDRESS(HOUSE\_NO VARCHAR2(90), STREET\_NAME VARCHAR2(90),

CITY VARCHAR2(90), STATE VARCHAR2(90), STUDENT\_ID NUMBER,

CONSTRAINT ADDRESS\_FK1 FOREIGN KEY(STUDENT\_ID) REFERENCES STUDENT(ID));

DROP TABLE STUDENT;

CREATE TABLE STUDENT(ID NUMBER UNIQUE, FIRST\_NAME VARCHAR2(90),

LAST\_NAME VARCHAR2(90), AGE NUMBER, EMAIL VARCHAR2(90));

CREATE TABLE ADDRESS(HOUSE\_NO VARCHAR2(90), STREET\_NAME VARCHAR2(90),

CITY VARCHAR2(90), STATE VARCHAR2(90), STUDENT\_ID NUMBER,

CONSTRAINT ADDRESS\_FK1 FOREIGN KEY(STUDENT\_ID) REFERENCES STUDENT(ID));

INSERT INTO STUDENT VALUES(1, 'RAMU', 'B', 22, 'R@R.COM');

INSERT INTO ADDRESS VALUES('123/B', 'BTM', 'BLR', 'KAR', 1);

INSERT INTO STUDENT VALUES(2, 'MANU', 'B', 24, 'M@R.COM');

INSERT INTO ADDRESS VALUES('123/C', 'JPN', 'BLR', 'KAR', 2);

INSERT INTO STUDENT VALUES(3, 'VIJAY', 'B', 26, 'V@R.COM');

INSERT INTO ADDRESS VALUES('123/V', 'JN', 'BLR', 'KAR', 3);

INSERT INTO ADDRESS VALUES('123/R', 'JN', 'BLR', 'KAR', 4);//ERROR

INSERT INTO STUDENT VALUES(4, 'MURALI', 'B', 26, 'M@R.COM');

INSERT INTO ADDRESS VALUES('123/V', 'JN', 'BLR', 'KAR', 4);

DELETE FROM STUDENT WHERE ID = 4; //ERROR

DELETE FROM ADDRESS WHERE STUDENT\_ID = 4;

DELETE FROM STUDENT WHERE ID = 4;

DROP TABLE STUDENT; //ERROR

DELETE FROM ADDRESS;

DROP TABLE STUDENT; //ERROR

DROP TABLE ADDRESS;

DROP TABLE STUDENT;

CREATE TABLE STUDENT(ID NUMBER UNIQUE, FIRST\_NAME VARCHAR2(90),

LAST\_NAME VARCHAR2(90), AGE NUMBER, EMAIL VARCHAR2(90));

CREATE TABLE ADDRESS(HOUSE\_NO VARCHAR2(90), STREET\_NAME VARCHAR2(90),

CITY VARCHAR2(90), STATE VARCHAR2(90), STUDENT\_ID NUMBER,

CONSTRAINT ADDRESS\_FK1 FOREIGN KEY(STUDENT\_ID) REFERENCES STUDENT(ID));

INSERT INTO STUDENT VALUES(1, 'RAMU', 'B', 22, 'R@GMAIL.COM');

INSERT INTO ADDRESS(HOUSE\_NO, STREET\_NAME, CITY, STATE)

VALUES('123/T', 'BTM', 'BLR', 'KAR');

UPDATE ADDRESS SET STUDENT\_ID = 3 WHERE HOUSE\_NO = '123/T';//ERROR

UPDATE ADDRESS SET STUDENT\_ID = 1 WHERE HOUSE\_NO = '123/T';

INSERT INTO STUDENT(FIRST\_NAME, LAST\_NAME, AGE, EMAIL)

VALUES('MANU', 'B', 22, 'R@GMAIL.COM');

INSERT INTO ADDRESS(HOUSE\_NO, STREET\_NAME, CITY, STATE)

VALUES('123/Y', 'BTM', 'BLR', 'KAR');

# Sql5

DROP TABLE PERSON;

CREATE TABLE PERSON (ID NUMBER PRIMARY KEY, FIRST\_NAME VARCHAR2(90),

LAST\_NAME VARCHAR2(90), AGE NUMBER);

DROP TABLE ADDRESS;

CREATE TABLE ADDRESS(HOUSE\_NO VARCHAR2(90), STREET\_NAME VARCHAR2(90),

CITY VARCHAR2(90), STATE VARCHAR2(90), PERSON\_ID NUMBER UNIQUE,

CONSTRAINT ADDRESS\_FK1 FOREIGN KEY(PERSON\_ID) REFERENCES PERSON(ID));

INSERT INTO PERSON VALUES(1, 'RAMU', 'ABC', 22);

INSERT INTO PERSON VALUES(2, 'MANU', 'XYZ', 24);

INSERT INTO PERSON VALUES(3, 'SWETHA', 'TEST', 21);

INSERT INTO PERSON VALUES(4, 'KUMAR', 'BLR', 23);

INSERT INTO PERSON VALUES(5, 'MURALI', 'BLR', 23);

INSERT INTO ADDRESS VALUES('123/B', 'BTM', 'BLR', 'KAR', 1);

INSERT INTO ADDRESS VALUES('123/C', 'BTM', 'BLR', 'KAR', 1);//ERROR

INSERT INTO ADDRESS VALUES('123/D', 'BTM', 'BLR', 'KAR', 2);

INSERT INTO ADDRESS VALUES('123/E', 'BTM', 'BLR', 'KAR', 3);

INSERT INTO ADDRESS VALUES('123/F', 'BTM', 'BLR', 'KAR', 4);

INSERT INTO ADDRESS VALUES('123/G', 'BTM', 'BLR', 'KAR', 6); //ERROR

INSERT INTO ADDRESS(HOUSE\_NO, STREET\_NAME, CITY, STATE)

VALUES('123/G', 'BTM', 'BLR', 'KAR');

SELECT \* FROM PERSON;

SELECT \* FROM ADDRESS;

SELECT \* FROM PERSON WHERE FIRST\_NAME = 'RAMU';

SELECT \* FROM ADDRESS WHERE HOUSE\_NO = '123/D';

SELECT \* FROM ADDRESS WHERE PERSON\_ID = 3;

SELECT \* FROM ADDRESS WHERE PERSON\_ID =

(SELECT ID FROM PERSON WHERE FIRST\_NAME = 'RAMU');

SELECT \* FROM PERSON WHERE ID =

(SELECT PERSON\_ID FROM ADDRESS WHERE HOUSE\_NO = '123/E');

SELECT \* FROM PERSON, ADDRESS WHERE PERSON.ID = ADDRESS.PERSON\_ID;

SELECT \* FROM PERSON P, ADDRESS A WHERE P.ID = A.PERSON\_ID;

SELECT \* FROM PERSON P INNER JOIN ADDRESS A ON P.ID = A.PERSON\_ID;

SELECT \* FROM PERSON P LEFT OUTER JOIN ADDRESS A ON P.ID = A.PERSON\_ID;

SELECT \* FROM PERSON P RIGHT OUTER JOIN ADDRESS A ON P.ID = A.PERSON\_ID;

SELECT \* FROM PERSON P FULL OUTER JOIN ADDRESS A ON P.ID = A.PERSON\_ID;

SELECT \* FROM PERSON P FULL OUTER JOIN ADDRESS A ON

P.ID = A.PERSON\_ID ORDER BY P.ID;

# Sql6

DROP TABLE PERSON CASCADE CONSTRAINTS;

CREATE TABLE PERSON (ID NUMBER PRIMARY KEY, FIRST\_NAME VARCHAR2(90),

LAST\_NAME VARCHAR2(90), AGE NUMBER);

DROP TABLE MAIL\_ACCOUNT;

CREATE TABLE MAIL\_ACCOUNT(USERNAME VARCHAR2(90), PASSWORD VARCHAR2(90),

PROVIDER VARCHAR2(90), PERSON\_ID NUMBER,

CONSTRAINT MK\_FK1 FOREIGN KEY(PERSON\_ID) REFERENCES PERSON(ID));

INSERT INTO PERSON VALUES(1, 'RAMU', 'ABC', 22);

INSERT INTO PERSON VALUES(2, 'MANU', 'XYZ', 24);

INSERT INTO PERSON VALUES(3, 'SWETHA', 'TEST', 21);

INSERT INTO PERSON VALUES(4, 'KUMAR', 'BLR', 23);

INSERT INTO PERSON VALUES(5, 'MURALI', 'BLR', 23);

INSERT INTO MAIL\_ACCOUNT VALUES('ABC', 'XYZ', 'GMAIL', 1);

INSERT INTO MAIL\_ACCOUNT VALUES('RAMU', 'XYZ', 'GMAIL', 1);

INSERT INTO MAIL\_ACCOUNT VALUES('RAMU1', 'XYZ', 'HOTMAIL', 1);

INSERT INTO MAIL\_ACCOUNT VALUES('MANU', 'XYZ', 'HOTMAIL', 2);

INSERT INTO MAIL\_ACCOUNT VALUES('MANU', 'XYZ', 'GMAIL', 2);

INSERT INTO MAIL\_ACCOUNT VALUES('SWETHA', 'XYZ', 'GMAIL', 3);

INSERT INTO MAIL\_ACCOUNT VALUES('KUMAR', 'XYZ', 'GMAIL', 4);

INSERT INTO MAIL\_ACCOUNT(USERNAME, PASSWORD, PROVIDER)

VALUES('USER1', 'XYZ', 'GMAIL');

SELECT \* FROM PERSON;

SELECT \* FROM MAIL\_ACCOUNT;

SELECT \* FROM PERSON WHERE FIRST\_NAME = 'RAMU';

SELECT \* FROM MAIL\_ACCOUNT WHERE USERNAME = 'RAMU1';

SELECT \* FROM MAIL\_ACCOUNT WHERE PERSON\_ID = 3;

SELECT \* FROM MAIL\_ACCOUNT WHERE PERSON\_ID =

(SELECT ID FROM PERSON WHERE FIRST\_NAME = 'RAMU');

SELECT \* FROM PERSON WHERE ID =

(SELECT PERSON\_ID FROM MAIL\_ACCOUNT WHERE USERNAME = 'RAMU');

SELECT \* FROM PERSON, MAIL\_ACCOUNT WHERE PERSON.ID = MAIL\_ACCOUNT.PERSON\_ID;

SELECT \* FROM PERSON P, MAIL\_ACCOUNT M WHERE P.ID = M.PERSON\_ID;

SELECT \* FROM PERSON P INNER JOIN MAIL\_ACCOUNT M ON P.ID = M.PERSON\_ID;

SELECT \* FROM PERSON P LEFT OUTER JOIN MAIL\_ACCOUNT M ON P.ID = M.PERSON\_ID;

SELECT \* FROM PERSON P RIGHT OUTER JOIN MAIL\_ACCOUNT M ON P.ID = M.PERSON\_ID;

SELECT \* FROM PERSON P FULL OUTER JOIN MAIL\_ACCOUNT M ON P.ID = M.PERSON\_ID;

# Sql7

DROP TABLE STUDENT CASCADE CONSTRAINTS;

CREATE TABLE STUDENT(ID NUMBER UNIQUE, FIRST\_NAME VARCHAR2(90),

LAST\_NAME VARCHAR2(90));

DROP TABLE SKILL CASCADE CONSTRAINT;

CREATE TABLE SKILL(ID NUMBER UNIQUE, NAME VARCHAR2(90));

INSERT INTO STUDENT VALUES(1, 'RAMU', 'B');

INSERT INTO STUDENT VALUES(2, 'MANU', 'C');

INSERT INTO STUDENT VALUES(3, 'MURALI', 'D');

INSERT INTO STUDENT VALUES(4, 'KUMAR', 'E');

INSERT INTO SKILL VALUES(1, 'C');

INSERT INTO SKILL VALUES(2, 'C++');

INSERT INTO SKILL VALUES(3, 'JAVA');

INSERT INTO SKILL VALUES(4, 'ORACLE');

DROP TABLE STUDENT\_SKILL CASCADE CONSTRAINTS;

CREATE TABLE STUDENT\_SKILL(STUDENT\_ID NUMBER, SKILL\_ID NUMBER,

CONSTRAINT SS\_FK1 FOREIGN KEY(STUDENT\_ID) REFERENCES STUDENT(ID),

CONSTRAINT SS\_FK2 FOREIGN KEY(SKILL\_ID) REFERENCES SKILL(ID));

INSERT INTO STUDENT\_SKILL VALUES(1, 1);

INSERT INTO STUDENT\_SKILL VALUES(1, 2);

INSERT INTO STUDENT\_SKILL VALUES(2, 2);

INSERT INTO STUDENT\_SKILL VALUES(3, 1);

INSERT INTO STUDENT\_SKILL VALUES(3, 4);

SELECT \* FROM STUDENT;

SELECT \* FROM SKILL;

SELECT \* FROM STUDENT\_SKILL;

SELECT NAME FROM SKILL WHERE ID IN (SELECT SKILL\_ID FROM STUDENT\_SKILL WHERE STUDENT\_ID = (SELECT ID FROM STUDENT WHERE FIRST\_NAME = 'RAMU'));

SELECT FIRST\_NAME FROM STUDENT WHERE ID IN (SELECT STUDENT\_ID FROM STUDENT\_SKILL WHERE SKILL\_ID = (SELECT ID FROM SKILL WHERE NAME = 'C'));

SELECT \* FROM STUDENT, STUDENT\_SKILL, SKILL WHERE STUDENT.ID = STUDENT\_SKILL.STUDENT\_ID AND STUDENT\_SKILL.SKILL\_ID = SKILL.ID;

SELECT \* FROM STUDENT S INNER JOIN STUDENT\_SKILL SS ON S.ID = SS.STUDENT\_ID INNER JOIN SKILL SK ON SS.SKILL\_ID = SK.ID;

# Sql8

MM ==> Month (01-12)

MON ==> Month in the abrrivated (JAN, FEB, ...)

MONTH ==> Name of the Month

YY ==> Year (14, 15)

YYYY ==> Year (2014, 2015)

DD ==> Day of the month.

HH24 ==> Hour of the day(0-23)

HH12 ==> Hour of the day(1-12)

HH ==> Hour of the day(1-12)

AM, PM ==> |

A.M, P.M ==> | Meridian Indicator

MI ==> Minute (0-59)

SS ==> Second(0-59)

FF ==> Milliseconds (0-999)

note: all the above letters are case in sensitive

--------------------------------------------

create table t1(sno int, name varchar(90), dob date, doj timestamp);

insert into t1 values(1, 'abc', sysdate, sysdate);

insert into t1 values(2, 'xyz', to\_date('1990/12/25', 'YYYY/MM/DD'),

to\_date('2014/03/25', 'YYYY/MM/DD'));

insert into t1 values(3, 'xyz', to\_date('1990-12-25', 'YYYY-MM-DD'),

to\_date('2014-23-05', 'YYYY-DD-MM'));

insert into t1 values(4, 'xyz', to\_date('19901225', 'YYYYMMDD'),

to\_date('20142305', 'YYYYDDMM'));

insert into t1 values(5, 'xyz', to\_date('1990-JAN-25', 'YYYY-MON-DD'),

to\_date('2014-23-JUL', 'YYYY-DD-MON'));

insert into t1 values(6, 'xyz', to\_date('1990-JULY-25', 'YYYY-MONTH-DD'),

to\_date('2014-23-MARCH', 'YYYY-DD-MONTH'));

insert into t1 values(7, 'xyz', '31-MAR-98','22-APR-14'); //default DD-MON-YY

insert into t1 values(8, 'xyz', to\_date('1998/05/20:13:25:48','YYYY/MM/DD:HH24:MI:SS'),

to\_date('2013/25/10:03:25:48AM','YYYY/DD/MM:HH:MI:SSAM'));

insert into t1 values(9, 'xyz', to\_date('1998/05/20:10:25:48PM','YYYY/MM/DD:HH12:MI:SSPM'),

to\_date('2013/25/10:03:25:48AM','YYYY/DD/MM:HH:MI:SSAM'));

insert into t1 values(10, 'xyz', to\_date('1998/05/20:10:25:48PM','YYYY/MM/DD:HH12:MI:SSPM'),

to\_timestamp('2013/25/10:03:25:48AM','YYYY/DD/MM:HH:MI:SSAM'));

insert into t1 values(11, 'xyz', to\_date('1990-JULY-25', 'YYYY-MONTH-DD'),

to\_timestamp('2014-23-MARCH', 'YYYY-DD-MONTH'));

insert into t1 values(12, 'xyz', to\_date('1990.JULY.25', 'YYYY.MONTH.DD'),

to\_timestamp('2014 23 MARCH', 'YYYY DD MONTH'));

insert into t1 values(13, 'xyz', to\_date('1998/05/20-10-25-48PM','YYYY/MM/DD-HH12-MI-SSPM'), to\_timestamp('2013/25/10.03.25.48AM','YYYY/DD/MM.HH.MI.SSAM'));

insert into t1 values(14, 'xyz', to\_date('1998/05/20-10-25-48PM','YYYY/MM/DD-HH12-MI-SSPM'), to\_timestamp('2013/25/10.03.25.48.999AM','YYYY/DD/MM.HH.MI.SS.FF.AM'));

insert into t1 values(2, 'xyz', to\_date('1998/05/20-10-25-48.550PM','YYYY/MM/DD-HH12-MI-SS.FFPM'),

to\_timestamp('2013/25/10.03.25.48.520AM','YYYY/DD/MM.HH.MI.SS.FF.AM'));

// ERROR . to\_date wont support milliseconds.

select \* from t1; // observe the dafault date out put and time stamp output.

select to\_char(dob, 'YYYY/MM/DD') as dob, to\_char(doj, 'YYYY/MM/DD') as doj from t1;

select to\_char(dob ,'YYYY/MM/DD-HH12-MI-SSPM') as dob,

to\_char(doj,'YYYY/DD/MM.HH.MI.SSAM') as doj from t1;

select to\_char(dob, 'YYYY-MONTH-DD') as dob,

to\_char(doj, 'YYYY-DD-MONTH') as doj from t1;

select \* from t1 where dob > doj;

select \* from t1 where doj > dob;

select \* from t1 where dob > '25-DEC-90';

select \* from t1 where dob BETWEEN '25-DEC-90' AND '20-MAR-99';

select \* from t1 where dob = to\_date('1990/12/25', 'YYYY/MM/DD');

select \* from t1 where dob > to\_date('1990/12/25', 'YYYY/MM/DD');

select \* from t1 where dob between to\_date('1990/01/01', 'YYYY/MM/DD') and

to\_date('2000/01/01', 'YYYY/MM/DD');

create table t2(sno int, name varchar(90), sal int, dept varchar(90));

insert into t2 values(1, 'ramu', 20000, 'sw');

insert into t2 values(2, 'manu', 30000, 'sw');

insert into t2 values(3, 'pavan', 25000, 'sw');

insert into t2 values(4, 'kiran', 40000, 'hw');

insert into t2 values(5, 'naveen', 35000, 'hw');

insert into t2 values(6, 'chenna', 38000, 'hw');

select \* from t2;

select \* from t2 order by dept;

select dept, count(\*) as total\_emp from t2 group by dept;

select dept, sum(sal) from t2 group by dept;

select dept, max(sal) from t2 group by dept;

select dept, min(sal) from t2 group by dept;

select dept, avg(sal) from t2 group by dept;

-------------------

CREATE TABLE EMP(ID INT, NAME VARCHAR(90), DOB DATE);

INSERT INTO EMP VALUES(1, 'RAMU', '12-JAN-92');

INSERT INTO EMP VALUES(2, 'MANU', '12-FEB-92');

INSERT INTO EMP VALUES(3, 'VIJAY', '15-JAN-92');

INSERT INTO EMP VALUES(4, 'MANJU', '20-JAN-92');

INSERT INTO EMP VALUES(5, 'MANOJ', '15-NOV-94');

INSERT INTO EMP VALUES(6, 'NAVEEN', '22-AUG-91');

INSERT INTO EMP VALUES(7, 'NARESH', TO\_DATE('12-JAN-92 8.30', 'DD-MON-YY HH.MI'));

DELETE FROM EMP WHERE ID = 8;

INSERT INTO EMP VALUES(8, 'NARAYANA', TO\_DATE('12-DEC-95 18.30:45', 'DD-MON-YY HH24.MI:SS'));

INSERT INTO EMP VALUES(9, 'PAVAN', TO\_DATE('30-DEC-92 5.30 AM : 45', 'DD-MON-YY HH.MI AM : SS'));

INSERT INTO EMP VALUES(10, 'PRAVEEN', TO\_DATE('30-DEC-92 5.30 PM : 45', 'DD-MON-YY HH.MI PM : SS'));

INSERT INTO EMP VALUES(11, 'PRAVEEN', TO\_DATE('20-AUGUST-92 5.30 PM : 45', 'DD-MONTH-YY HH.MI PM : SS'));

INSERT INTO EMP VALUES(12, 'SWATHI', TO\_DATE('20-JULY-92 7.30 PM : 45', 'DD-MONTH-YY HH.MI PM : SS'));

SELECT \* FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'DD') AS DAY FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'MON') AS MONTH FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'MONTH') AS MONTH FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'MM') AS MONTH FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'MONTH') AS MONTH FROM EMP WHERE TO\_CHAR(DOB, 'DD') > 15;

SELECT NAME, TO\_CHAR(DOB, 'MONTH') AS MONTH FROM EMP WHERE TO\_CHAR(DOB, 'DD') <= 15;

SELECT NAME, TO\_CHAR(DOB, 'MONTH') AS MONTH FROM EMP WHERE TO\_CHAR(DOB, 'MM') > 5;

SELECT NAME, TO\_CHAR(DOB, 'MONTH') AS MONTH FROM EMP WHERE TO\_CHAR(DOB, 'MM') <= 5;

SELECT NAME, TO\_CHAR(DOB, 'MONTH') AS MONTH FROM EMP WHERE TO\_CHAR(DOB, 'MON') = 'JAN';

SELECT NAME, TO\_CHAR(DOB, 'MONTH') AS MONTH FROM EMP WHERE TO\_CHAR(DOB, 'MONTH') LIKE '%RY%';

SELECT NAME, TO\_CHAR(DOB, 'HH') AS HOUR FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'HH24') AS HOUR FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'HH12') AS HOUR FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'HH AM') AS HOUR FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'HH PM') AS HOUR FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'HH AM') HOUR FROM EMP WHERE TO\_CHAR(DOB, 'HH24') > 10;

SELECT NAME, TO\_CHAR(DOB, 'HH AM') HOUR FROM EMP WHERE TO\_CHAR(DOB, 'HH24') < 7;

SELECT NAME, TO\_CHAR(DOB, 'HH AM') HOUR FROM EMP WHERE TO\_CHAR(DOB, 'HH AM') LIKE '%PM%';

SELECT NAME, TO\_CHAR(DOB, 'YY') YEAR FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'YYYY') YEAR FROM EMP;

SELECT NAME, TO\_CHAR(DOB, 'YY') YEAR FROM EMP WHERE TO\_CHAR(DOB, 'YY') < 93;

SELECT NAME, TO\_CHAR(DOB, 'YY') YEAR FROM EMP WHERE TO\_CHAR(DOB, 'YY') >= 95;

SELECT NAME, TO\_CHAR(DOB, 'YY') YEAR FROM EMP WHERE TO\_CHAR(DOB, 'YY') BETWEEN 92 AND 94;

SELECT NAME FROM EMP WHERE TO\_CHAR(DOB, 'DD.MM.YY') = '12.01.92';

SELECT NAME FROM EMP WHERE TO\_CHAR(DOB, 'DD.MM.YY') > '12.01.92';

SELECT NAME FROM EMP WHERE TO\_CHAR(DOB, 'DD-MM-YY') = '12-01-92';

# Sql9

CREATE SEQUENCE GENDER\_SEQ INCREMENT BY 1 START WITH 1;

CREATE TABLE GENDER(ID INT UNIQUE, NAME VARCHAR(90));

INSERT INTO GENDER VALUES(GENDER\_SEQ.NEXTVAL, 'MALE');

INSERT INTO GENDER VALUES(GENDER\_SEQ.NEXTVAL, 'FEMALE');

CREATE SEQUENCE SKILL\_SEQ INCREMENT BY 1 START WITH 1;

CREATE TABLE SKILL(ID INT UNIQUE, NAME VARCHAR(90));

INSERT INTO SKILL VALUES(SKILL\_SEQ.NEXTVAL, 'C');

INSERT INTO SKILL VALUES(SKILL\_SEQ.NEXTVAL, 'C++');

INSERT INTO SKILL VALUES(SKILL\_SEQ.NEXTVAL, 'JAVA');

INSERT INTO SKILL VALUES(SKILL\_SEQ.NEXTVAL, 'ORACLE');

CREATE SEQUENCE EDUCATION\_SEQ INCREMENT BY 1 START WITH 1;

CREATE TABLE EDUCATION(ID INT UNIQUE, NAME VARCHAR(90));

INSERT INTO EDUCATION VALUES(EDUCATION\_SEQ.NEXTVAL, 'B.TECH');

INSERT INTO EDUCATION VALUES(EDUCATION\_SEQ.NEXTVAL, 'M.TECH');

INSERT INTO EDUCATION VALUES(EDUCATION\_SEQ.NEXTVAL, 'M.C.A');

INSERT INTO EDUCATION VALUES(EDUCATION\_SEQ.NEXTVAL, 'M.B.A');

INSERT INTO EDUCATION VALUES(EDUCATION\_SEQ.NEXTVAL, 'B.C.A');

CREATE SEQUENCE PROJECT\_SEQ INCREMENT BY 1 START WITH 1;

CREATE TABLE PROJECT(ID INT UNIQUE, NAME VARCHAR(90), DURATION INT, START\_DATE DATE);

INSERT INTO PROJECT VALUES(PROJECT\_SEQ.NEXTVAL, 'CITI', 120,

TO\_DATE('01-09-2014', 'DD-MM-YYYY'));

INSERT INTO PROJECT VALUES(PROJECT\_SEQ.NEXTVAL, 'HDFC', 150,

TO\_DATE('10-09-2014', 'DD-MM-YYYY'));

INSERT INTO PROJECT VALUES(PROJECT\_SEQ.NEXTVAL, 'AXIS', 180,

TO\_DATE('15-09-2014', 'DD-MM-YYYY'));

CREATE SEQUENCE EMPLOYEE\_SEQ INCREMENT BY 1 START WITH 1;

CREATE TABLE EMPLOYEE(ID INT UNIQUE, FIRST\_NAME VARCHAR(90),

LAST\_NAME VARCHAR(90), DATE\_BIRTH TIMESTAMP,

GENDER\_ID INT, LATEST\_EDUCATION\_ID INT, JOINING\_DATE DATE,

PROJECT\_ID INT, USERNAME VARCHAR(90), PASSWORD VARCHAR(90),

CONSTRAINT EMP\_FK1 FOREIGN KEY (GENDER\_ID) REFERENCES GENDER(ID),

CONSTRAINT EMP\_FK2 FOREIGN KEY (LATEST\_EDUCATION\_ID) REFERENCES EDUCATION(ID), CONSTRAINT EMP\_FK3 FOREIGN KEY (PROJECT\_ID) REFERENCES PROJECT(ID));

CREATE SEQUENCE ADDRESS\_SEQ INCREMENT BY 1 START WITH 1;

CREATE TABLE ADDRESS(ID INT UNIQUE, HOUSE\_NO VARCHAR(90),

STREET\_NAME VARCHAR(90), CITY VARCHAR(90),

STATE VARCHAR(90), EMPLOYEE\_ID INT UNIQUE,

CONSTRAINT ADDRESS\_FK1 FOREIGN KEY (EMPLOYEE\_ID) REFERENCES EMPLOYEE(ID));

CREATE TABLE EMPLOYEE\_SKILL(EMPLOYEE\_ID INT, SKILL\_ID INT,

CONSTRAINT ES\_FK1 FOREIGN KEY (EMPLOYEE\_ID) REFERENCES EMPLOYEE(ID),

CONSTRAINT ES\_FK2 FOREIGN KEY (SKILL\_ID) REFERENCES SKILL(ID));

INSERT INTO EMPLOYEE VALUES(EMPLOYEE\_SEQ.NEXTVAL, 'RAMU', 'Kodel', TO\_TIMESTAMP('01-01-1990 6:25:45', 'DD-MM-YYYY HH24:MI:SS'), 1, 1, TO\_DATE('20-02-2014', 'DD-MM-YYYY'), 1, 'ramu', 'kodela');

INSERT INTO ADDRESS VALUES(ADDRESS\_SEQ.NEXTVAL, '123-B/R', 'BTM', 'BANGALORE', 'KARNATAKA', 1);

INSERT INTO EMPLOYEE\_SKILL VALUES(1, 1);

INSERT INTO EMPLOYEE\_SKILL VALUES(1, 3);

INSERT INTO EMPLOYEE\_SKILL VALUES(1, 4);

INSERT INTO EMPLOYEE VALUES(EMPLOYEE\_SEQ.NEXTVAL, 'VIJAY', 'Vardnan', TO\_TIMESTAMP('01-01-1992 6:25:45', 'DD-MM-YYYY HH24:MI:SS'), 1, 2, TO\_DATE('25-02-2014', 'DD-MM-YYYY'), 1, 'india', '123');

INSERT INTO ADDRESS VALUES(ADDRESS\_SEQ.NEXTVAL, '909-B/6', 'BTM', 'BANGALORE', 'KARNATAKA', 2);

INSERT INTO EMPLOYEE\_SKILL VALUES(2, 1);

INSERT INTO EMPLOYEE\_SKILL VALUES(2, 2);

INSERT INTO EMPLOYEE VALUES(EMPLOYEE\_SEQ.NEXTVAL, 'Swathi', 'Pedimeti', TO\_TIMESTAMP('01-01-1995 6:25:45', 'DD-MM-YYYY HH24:MI:SS'), 2, 4, TO\_DATE('25-02-2013', 'DD-MM-YYYY'), 2, 'abc', 'xyz');

INSERT INTO ADDRESS VALUES(ADDRESS\_SEQ.NEXTVAL, '909-B/6', 'Ameerpeta', 'Hyderabad', 'Telangana', 3);

INSERT INTO EMPLOYEE\_SKILL VALUES(3, 1);

INSERT INTO EMPLOYEE\_SKILL VALUES(3, 3);

INSERT INTO EMPLOYEE VALUES(EMPLOYEE\_SEQ.NEXTVAL, 'Bhanu', 'Prakash', TO\_TIMESTAMP('01-01-1995 16:25:45', 'DD-MM-YYYY HH24:MI:SS'), 1, 3, TO\_DATE('15-04-2014', 'DD-MM-YYYY'), 2, 'hello', 'test');

INSERT INTO ADDRESS VALUES(ADDRESS\_SEQ.NEXTVAL, '909-B/6', 'Ameerpeta', 'Hyderabad', 'Telangana', 4);

INSERT INTO EMPLOYEE\_SKILL VALUES(4, 2);

INSERT INTO EMPLOYEE\_SKILL VALUES(4, 3);

INSERT INTO EMPLOYEE VALUES(EMPLOYEE\_SEQ.NEXTVAL, 'Swathi', 'priya', TO\_TIMESTAMP('01-01-1992 20:25:45', 'DD-MM-YYYY HH24:MI:SS'), 2, 1, TO\_DATE('15-04-2014', 'DD-MM-YYYY'), 3, 'lara', 'rst');

INSERT INTO ADDRESS VALUES(ADDRESS\_SEQ.NEXTVAL, '909-B/6', 'Balaji Colony', 'Tirupati', 'Andra Pradesh', 5);

INSERT INTO EMPLOYEE\_SKILL VALUES(5, 1);

INSERT INTO EMPLOYEE\_SKILL VALUES(5, 4);

INSERT INTO EMPLOYEE VALUES(EMPLOYEE\_SEQ.NEXTVAL, 'Naveen', 'Poyal', TO\_TIMESTAMP('01-01-1995 20:25:45', 'DD-MM-YYYY HH24:MI:SS'), 1, 5, TO\_DATE('15-04-2014', 'DD-MM-YYYY'), 3, 'blr, '567');

INSERT INTO ADDRESS VALUES(ADDRESS\_SEQ.NEXTVAL, '909-B/6', 'Giri Nagar', 'Tirupati', 'Andra Pradesh', 6);

INSERT INTO EMPLOYEE\_SKILL VALUES(6, 1);

INSERT INTO EMPLOYEE\_SKILL VALUES(6, 3);

SELECT E.ID, E.FIRST\_NAME, E.LAST\_NAME, E.DATE\_BIRTH, E.JOINING\_DATE, E.GENDER\_ID, E.LATEST\_EDUCATION\_ID, E.PROJECT\_ID,

A.HOUSE\_NO, A.STREET\_NAME, A.CITY, A.STATE,

G.NAME GENDER\_NAME, P.NAME PROJECT\_NAME, LE.NAME EDUCATION\_NAME, S.ID SKILL\_ID, S.NAME SKILL\_NAME

FROM EMPLOYEE E, ADDRESS A, GENDER G, PROJECT P,

EDUCATION LE, EMPLOYEE\_SKILL ES, SKILL S

WHERE E.ID = A.EMPLOYEE\_ID AND

E.GENDER\_ID = G.ID AND

E.LATEST\_EDUCATION\_ID = LE.ID AND

E.PROJECT\_ID = P.ID AND

E.ID = ES.EMPLOYEE\_ID AND

ES.SKILL\_ID = S.ID AND E.ID = 22

# Sql10

some input

----------

Fuel types

--------

petrol

diesel

lpg(Liquefied petroleum gas)

cng(compressed natural gas)

car types

---------

hatchback(no extended boot)

ex: maruthi alto, swift, ford figo,

sedan(extended boot)

ex: maruthi swift dzire, ford figo aspire

SUV (Sport Utility Vehical)

ex: FORD ENDEAVOUR

MPV (Multi purpose Vehical)

Luxury

Van

transmission type

-----------------

manual

auto

colors

------

blue

silver

gray

green

gold

brands

------

Maruthi Suzuki

Hyundai

Toyota

Honda

Ford

Tata

VolksWagen

Features

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1. Cameras that see everything around your car

including behind it.

2. built in vacuum cleaner

3. NASA approved car seats.

4. Heated wiper blades that melt ice and

snow to keep everything clear.

5. Sensors that learn your driving

style and can detect when you’re too tired to drive.

6. Access to your Android or iPhone

without having to grab them while driving.

7. Speakers that provide actual surround sound.

8. Automatic stop and start engines to save

fuel during those traffic jams.

9. High beams that automatically

adjust to not blind everyone else on the road.

sql commands

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CREATE TABLE FUEL\_TYPE(ID INT UNIQUE, TYPE VARCHAR(90) UNIQUE);

INSERT INTO FUEL\_TYPE VALUES(1, 'PETROL');

INSERT INTO FUEL\_TYPE VALUES(2, 'DIESEL');

INSERT INTO FUEL\_TYPE VALUES(3, 'LPG');

INSERT INTO FUEL\_TYPE VALUES(4, 'CNG');

SELECT \* FROM FUEL\_TYPE;

CREATE TABLE CAR\_TYPE(ID INT UNIQUE, TYPE VARCHAR(90) UNIQUE);

INSERT INTO CAR\_TYPE VALUES(1, 'HATCHBACK');

INSERT INTO CAR\_TYPE VALUES(2, 'SEDAN');

INSERT INTO CAR\_TYPE VALUES(3, 'SUV');

INSERT INTO CAR\_TYPE VALUES(4, 'MPV');

INSERT INTO CAR\_TYPE VALUES(5, 'LUXURY');

INSERT INTO CAR\_TYPE VALUES(6, 'VAN');

select \* from CAR\_TYPE;

CREATE TABLE TRANSMISSION\_TYPE(ID INT UNIQUE, TYPE VARCHAR(90) UNIQUE);

INSERT INTO TRANSMISSION\_TYPE VALUES(1, 'MANUAL');

INSERT INTO TRANSMISSION\_TYPE VALUES(2, 'AUTOMATIC');

select \* from TRANSMISSION\_TYPE;

CREATE TABLE COLOR(ID INT UNIQUE, NAME VARCHAR(90) UNIQUE);

INSERT INTO COLOR VALUES(1, 'BLUE');

INSERT INTO COLOR VALUES(2, 'SILVER');

INSERT INTO COLOR VALUES(3, 'GOLD');

INSERT INTO COLOR VALUES(4, 'GRAY');

INSERT INTO COLOR VALUES(5, 'GREEN');

select \* from COLOR;

CREATE TABLE FEATURE(ID INT UNIQUE, FEATURE\_DESC VARCHAR(90) UNIQUE);

INSERT INTO FEATURE VALUES(1, 'Cameras that see everything around your caR');

INSERT INTO FEATURE VALUES(2, 'AIR CONDITION');

INSERT INTO FEATURE VALUES(3, 'AUDIO');

INSERT INTO FEATURE VALUES(4, 'VACUUM CLEANER');

INSERT INTO FEATURE VALUES(5, 'NASA APPROVED CAR SEATS');

INSERT INTO FEATURE VALUES(6, 'HEATED WIPER BLADES');

INSERT INTO FEATURE VALUES(7, 'SENSORS');

INSERT INTO FEATURE VALUES(8, 'SPEAKERS');

INSERT INTO FEATURE VALUES(9, 'ACCESS TO ANDROID AND IPHONE');

select \* from FEATURE;

CREATE TABLE BRAND(ID INT UNIQUE, NAME VARCHAR(90) UNIQUE);

INSERT INTO BRAND VALUES(1, 'MARUTHI SUZUKI');

INSERT INTO BRAND VALUES(2, 'TATA');

INSERT INTO BRAND VALUES(3, 'Hyundai');

INSERT INTO BRAND VALUES(4, 'HONDA');

INSERT INTO BRAND VALUES(5, 'FORD');

SELECT \* FROM BRAND;

CREATE TABLE BRAND\_MODEL(ID INT UNIQUE, NAME VARCHAR(90) UNIQUE,

BRAND\_ID INT, CAR\_TYPE INT,

CONSTRAINT BMF1 FOREIGN KEY(BRAND\_ID) REFERENCES BRAND(ID),

CONSTRAINT BMF2 FOREIGN KEY(CAR\_TYPE) REFERENCES CAR\_TYPE(ID));

INSERT INTO BRAND\_MODEL VALUES(1, 'ALTO', 1, 1);

INSERT INTO BRAND\_MODEL VALUES(2, 'SWIFT', 1, 1);

INSERT INTO BRAND\_MODEL VALUES(3, 'SWIFT DZIRE', 1, 2);

INSERT INTO BRAND\_MODEL VALUES(4, 'OMNI', 1, 6);

INSERT INTO BRAND\_MODEL VALUES(5, 'FIGO', 5, 1);

INSERT INTO BRAND\_MODEL VALUES(7, 'FIGO ASPIRE', 5, 2);

INSERT INTO BRAND\_MODEL VALUES(8, 'ENDEAVOUR', 5, 3);

SELECT \* FROM BRAND\_MODEL;

CREATE TABLE MODEL\_COLOR(MODEL\_ID INT, COLOR\_ID INT,

CONSTRAINT MCF1 FOREIGN KEY(MODEL\_ID) REFERENCES BRAND\_MODEL(ID),

CONSTRAINT MCF2 FOREIGN KEY(COLOR\_ID) REFERENCES COLOR(ID));

INSERT INTO MODEL\_COLOR VALUES(1, 1);

INSERT INTO MODEL\_COLOR VALUES(1, 2);

INSERT INTO MODEL\_COLOR VALUES(1, 4);

INSERT INTO MODEL\_COLOR VALUES(2, 2);

INSERT INTO MODEL\_COLOR VALUES(2, 5);

INSERT INTO MODEL\_COLOR VALUES(2, 4)

CREATE TABLE MODEL\_FEATURE(MODEL\_ID INT, FEATURE\_ID INT,

CONSTRAINT MMF1 FOREIGN KEY(MODEL\_ID) REFERENCES BRAND\_MODEL(ID),

CONSTRAINT MMF2 FOREIGN KEY(FEATURE\_ID) REFERENCES FEATURE(ID));

INSERT INTO MODEL\_FEATURE VALUES(1, 1);

INSERT INTO MODEL\_FEATURE VALUES(1, 2);

INSERT INTO MODEL\_FEATURE VALUES(1, 5);

INSERT INTO MODEL\_FEATURE VALUES(3, 2);

INSERT INTO MODEL\_FEATURE VALUES(3, 5);

assignment

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1. incorporate transission type and

fuel type