**Sub Query:-**

**#. A Sub-Query is a query nested inside another query.**

**#. It can be used in SELECT ,FROM or WHERE clause.**

**Example:-**

**SELECT COUNT(\*) FROM DEPT\_EMP WHERE DEPT\_NO =**

**( SELECT DEPT\_NO FROM DEPARTMENTS WHERE DEPT\_name='Development');**

**FOREIGN KEY:-**

**#. The Foreign Key Constraint is used to Prevent action that would destroy**

**link between tables.**

**#. A Foreign Key is a field in one table ,that refers to the primary key in another.**

CREATE TABLE ORDERS (ORDER\_ID INT NOT NULL,

ORDERNUMBER INT NOT NULL, PERSON\_ID INT,

PRIMARY KEY(ORDER\_ID),

FOREIGN KEY(PERSON\_ID)

REFERENCES PERSON(PERSON\_ID)ON DELETE CASCADE);

DESC ORDERS;

INSERT INTO ORDERS (ORDER\_ID,ORDERNUMBER,PERSON\_ID)

VALUES ( 1,2222,2);

DELETE FROM person WHERE PERSON\_ID=;

DROP TABLE ORDERS;

CREATE TABLE PERSON (PERSON\_ID INT PRIMARY KEY, NAME VARCHAR(20),

AGE INT );

DESC PERSON;

INSERT INTO PERSON (PERSON\_ID,NAME,AGE) VALUES (4,'DEEPAK',30);

SELECT \* FROM PERSON;

SELECT \* FROM ORDERS;

DELETE FROM PERSON WHERE PERSON\_ID=2;

DESC salaries;

DESC departments;

DESC DEPT\_MANAGER;

DESC employees;

DESC titles;

SELECT \* FROM SALARIES;

SELECT MAX(SALARY) FROM SALARIES WHERE SALARY <

( SELECT MAX(SALARY) FROM SALARIES WHERE SALARY <

( SELECT MAX(SALARY) FROM SALARIES WHERE SALARY ));

SELECT SALARY FROM SALARIES ORDER BY SALARY LIMIT 5 ;

select min(salary) from salaries where salary >

(select MIN(salary) from salaries);

**TCL :- Transaction Control Language.**

**#. COMMIT : Save all the changes made during the current transaction.**

**#. ROLLBACK : Revert changes made during the current transaction.**

**#. SAVEPOINT : SETS the savepoint within the transaction.**

CREATE TABLE ORDERS (ORDER\_ID INT NOT NULL,

ORDERNUMBER INT NOT NULL, PERSON\_ID INT,

PRIMARY KEY(ORDER\_ID),

FOREIGN KEY(PERSON\_ID)

REFERENCES PERSON(PERSON\_ID)ON UPDATE CASCADE);

SELECT \* FROM ORDERS;

INSERT INTO ORDERS (ORDER\_ID,ORDERNUMBER,PERSON\_ID)

VALUES ( 1,2222,3);

START TRANSACTION;

SELECT \* FROM PERSON;

UPDATE PERSON SET NAME='DEEPAK KAMDE' WHERE PERSON\_ID=101;

SAVEPOINT SP2;

UPDATE PERSON SET NAME='DEEPAK P KAMDE' WHERE PERSON\_ID=101;

ROLLBACK TO SP2;