Purpose of Sub query

Sub query is needed when it takes more than a single step to reach

the answer.

I need to REFER some other Data

RNO	CNAME	AGE	LOC	CHANNEL	LOOK
101	PRIYA	14	CHN	POGO	CUTE
102	JOHN	12	MUM	NEO	CALM
103	SACHIN	13	CAL	NEO	ACTIVE
104	ISHA	14	DEL	NDTV	SERIOUS
105	SUNIL	10	CHN	POGO	LOVABLE

RNO	PNAME	JOB	DEGREE	SAL
101	NEHA	DBA	BA	10000
102	AJAY	DEV	BSC	30000
103	ANIL	DBA	BCA	50000
104	TABU	DOC	MBBS	25000
105	ARJUN	DOC	MBBS	20000

I would like to know name ,look,age,Rno

of kids whose father's job is Developer

Select cname, look, age, Rno from kids

Where Rno in

(select Rno from parents where job='DEV')

102	JOHN	12	CALM
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DNO	DNAME	LOCATION
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

ENO	ENAME	JOB	SAL	DNO
7369	SMITH	CLERK	800	20
7499	ALLEN	SALESMAN	1600	30
7521	WARD	SALESMAN	1250	30
7566	JONES	MANAGER	2975	20
7654	MARTIN	SALESMAN	1250	30
7698	BLAKE	MANAGER	2850	30
7782	CLARK	MANAGER	2450	10
7788	SCOTT	ANALYST	3000	20
7839	KING	PRESISDENT	5000	10
7844	TURNER	SALESMAN	1500	30
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30
7902	FORD	ANALYST	3000	20
7934	MILLER	CLERK	1300	10

select empno, ename, job, sal, deptno from emp

where deptno in

(select deptno from dept where location='CHICAGO')

select empno, ename, job, sal, deptno from emp where deptno in (select deptno from dept where location='CHICAGO')

30		SALES			CHICAGO		
7499	ALLE	N	SALESMAN	160	0	30	
7521	WARD		SALESMAN	125	0	30	
7654	MAR	TIN	SALESMAN	125	0	30	
7698	BLAKE		MANAGER	285	0	30	
7844	TURI	NER	SALESMAN	150	0	30	
7900	JAME	S	CLERK	950		30	

```
Select ename, deptno from
(select ename, deptno from emp
where job = 'CLERK')
where deptno > 20;
```

Sub query on from clause — Inline view

```
select ename,
         (select max(sal) from emp)
"maxsal" ,
         sal.
  ((select max(sal) from emp ) - sal )
               "difference" from emp;
```

Sub query on select clause — **Scalar sub query**

1. Sub query

The sub query appears in the WHERE clause

2. Inline View

The sub query appears in the FROM clause

3. Scalar Sub query

The sub query appears in the SELECT clause

Simple Sub query

A simple sub query is evaluated once only for each table.

Correlated Sub query

A correlated sub query is evaluated once for each row.

Correlated Sub query

A correlated sub query is evaluated once for each row.

select ename ,sal ,deptno from emp a where a.sal < (select avg(sal) from emp b where a.deptno = b.deptno) order by deptno;