Distinct clause

to display "unique" values

syntax

select distinct <col> from <table>;

list the different job types

select distinct job from emp;

list the unique deptno

select distinct deptno from emp;

select distinct job,ename from emp; X

Joins

to combine 2 or more tables data

types

Equi join

Non-Equi join

outer join

self join

master -DETAIL relationship

STU PARENT

ATTEND EXAM FEE CHILD

DEPT parent

"DEPTNO" pk DNAME LOC

EMP child

empno pk deptno fk

integrity constraint (SCOTT.FK\_DEPTNO) violated - parent key not found

DELETE FROM DEPT WHERE DEPTNO=40;

SQL> select \* from dept;

DEPTNO DNAME LOC

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10 ACCOUNTING NEW YORK

20 RESEARCH DALLAS

30 SALES CHICAGO

40 OPERATIONS BOSTON

insert into emp(EMPNO,ENAME,JOB,DEPTNO) values(11,'abc','CLERK',99);

integrity constraint (SCOTT.FK\_DEPTNO) violated - parent key not found

1 row created.

COURSE PARENT

COURSE\_ID CNAME

101 ECE

102 EEE

103 CSE

104 MECH

105 IT

STU CHILD

1000

300 CSE

250 MECH

300 ECE

150 EEE

100 Civil X

Relationships

1 - 1

1 - many

many - 1 X(Relational model)

many - many X

EMP

EMPNO ENAME JOB SAL MGR COMM "DEPTNO" fk

HIREDATE

select \* from emp,dept;

56 rows selected.

emp 14

X

dept 4 =56

a=(1,2,3)

b=(5,6)

a X b=(1,5,1,6,2,5,2,6....

stu 101

exam adm attendance

101 1sem

101 2sem

faculty 1

"teach"

student MANY

emp 14

dept 4 product=56

Equi join or inner or natural

equal values in both tables

syntax

table1.col = table2.col

list the emps name,job,sal,dname and location of all emps

select ename,job,sal,dept.deptno,dname,loc from emp,dept where emp.deptno=dept.deptno;

column ambiguously defined

select ename,job,sal,dname,loc,emp.deptno,dept.deptno from emp,dept where emp.deptno=dept.deptno;

column ambiguously defined

Alias

column alias empno " emp number",loc LOCATION

eX:

selEct empno,ename as "Emp Name",sal "BASIC SALARY",mgr MANAGER FROM EMP;

list the emps name,basic salary,hra,da,ta and gross salary

SELECT ENAME,SAL " BASIC SAL",SAL\*0.1 'HRA',SAL\*0.1 DA,SAL\*0.12 "TA",SAL +SAL\*0.32 "GROSS SALARY" FROM EMP;

SELECT ENAME,SAL,SAL\*0.1 ,SAL\*0.1 ,SAL\*0.12 ,SAL +SAL\*0.32 FROM EMP;

SAL \* 10/100

table alias

TABLE <NAME>

select ename,job,sal,EMP.deptno,DNAME,LOC FROM EMP,DEPT WHERE EMP.DEPTNO=DEPT.DEPTNO;

select ename,job,sal,E.deptno,D.DEPTNO,dname,loc from emp e,dept D where E.deptno=D.deptno;

column ambiguously defined

STU

SNO NAME M1 M2 M3 TOTAL AVG

1 DDD 55 66 44