DATABASE SYSTEMS

JOINS

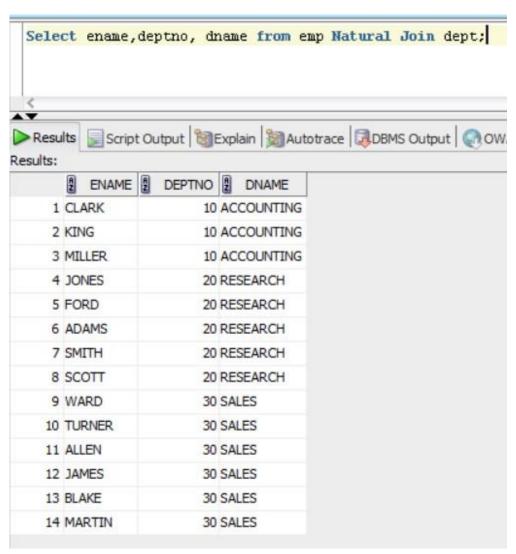
By Sana Faiz Sana.faiz.muet83@gmail.com

EQUI-JOIN FORMATION THROUGH NATURAL JOINS

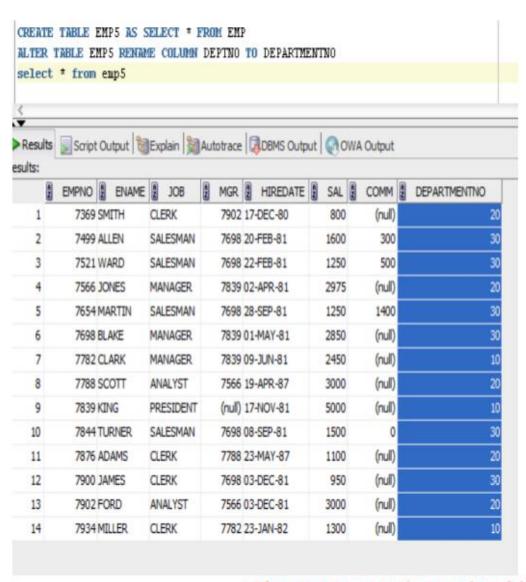
- The SQL NATURAL JOIN is a type of EQUI JOIN and is structured in such a way that, columns with the same name of associated tables will appear once only.
- NATURAL JOIN creates an implicit join clause for you based on the common columns in the two tables being joined.

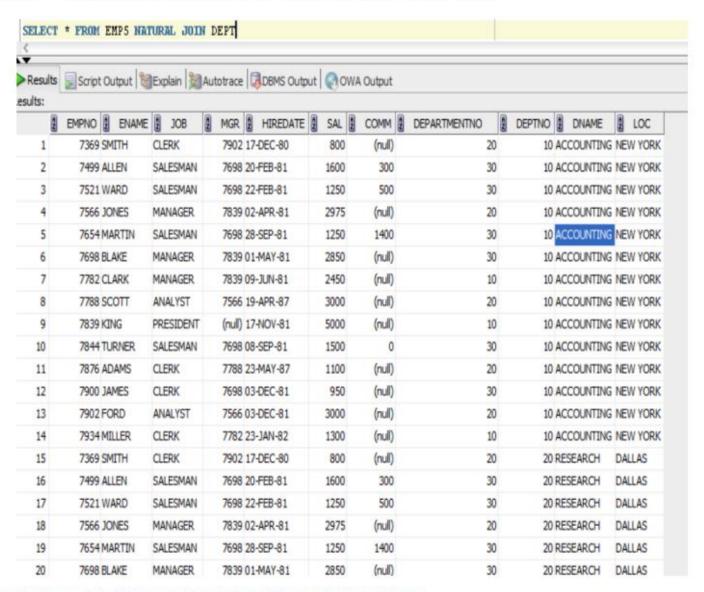
Guidelines:

- The associated tables have one or more pairs of identically named columns.
- The columns must be the same data type.
- The common column should also have the same name in the joining tables.
- No qualifiers can be used with the common column, if Natural Join keyword is used to form the join.



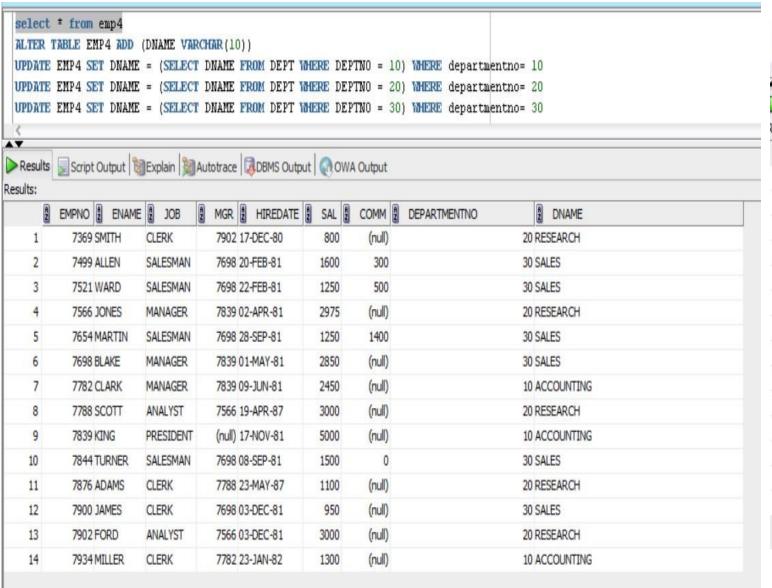
DIFFERENT NAMES OF COMMON COLUMNS

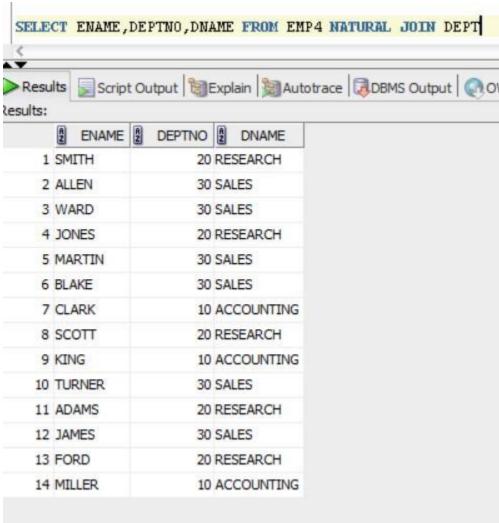




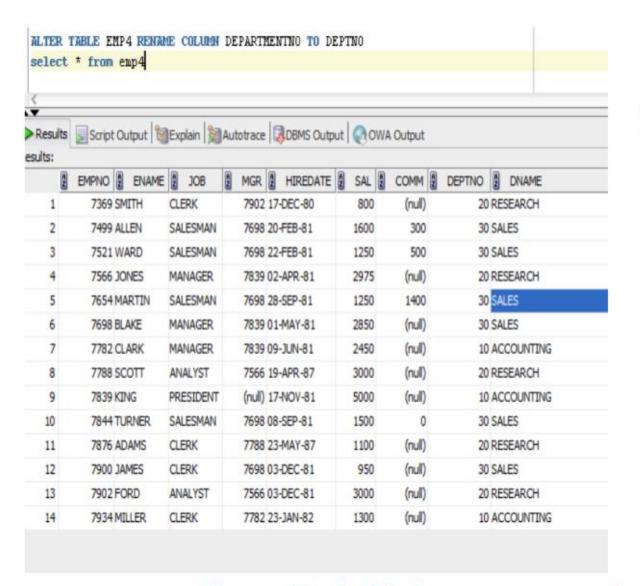
The common column should also have the same name in the joining tables

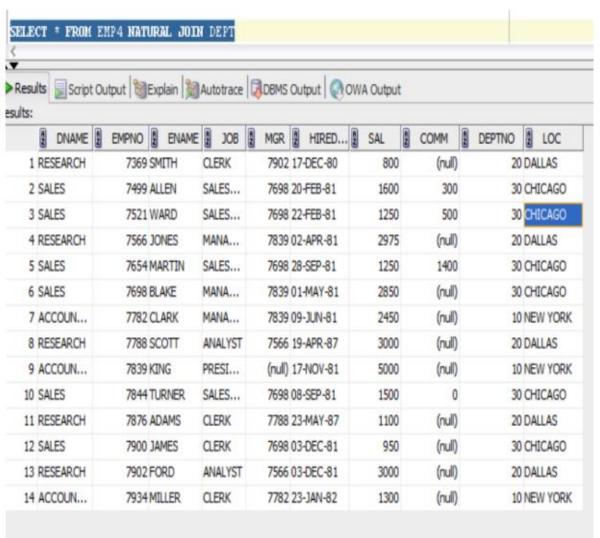
SINGLE COMMON COLUMN





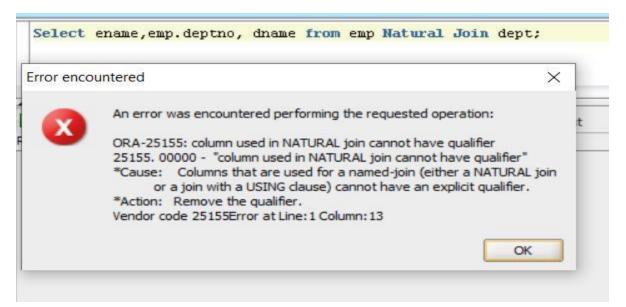
MULTIPLE COMMON COLUMNS

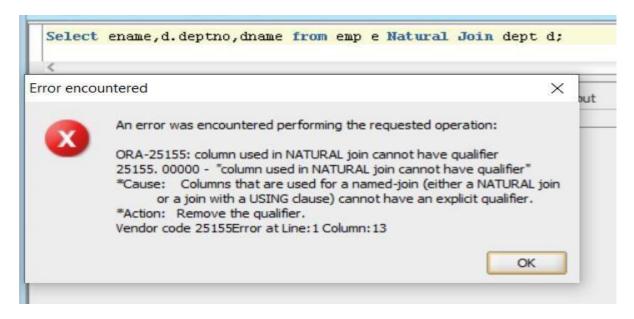




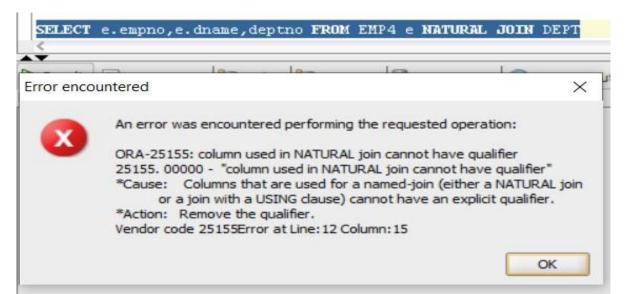
The associated tables have one or more pairs of identically named columns

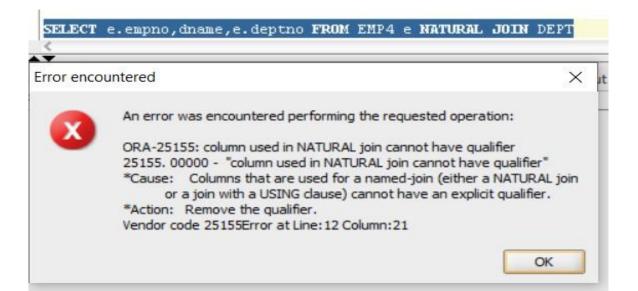
USE OF QUALIFIERSS





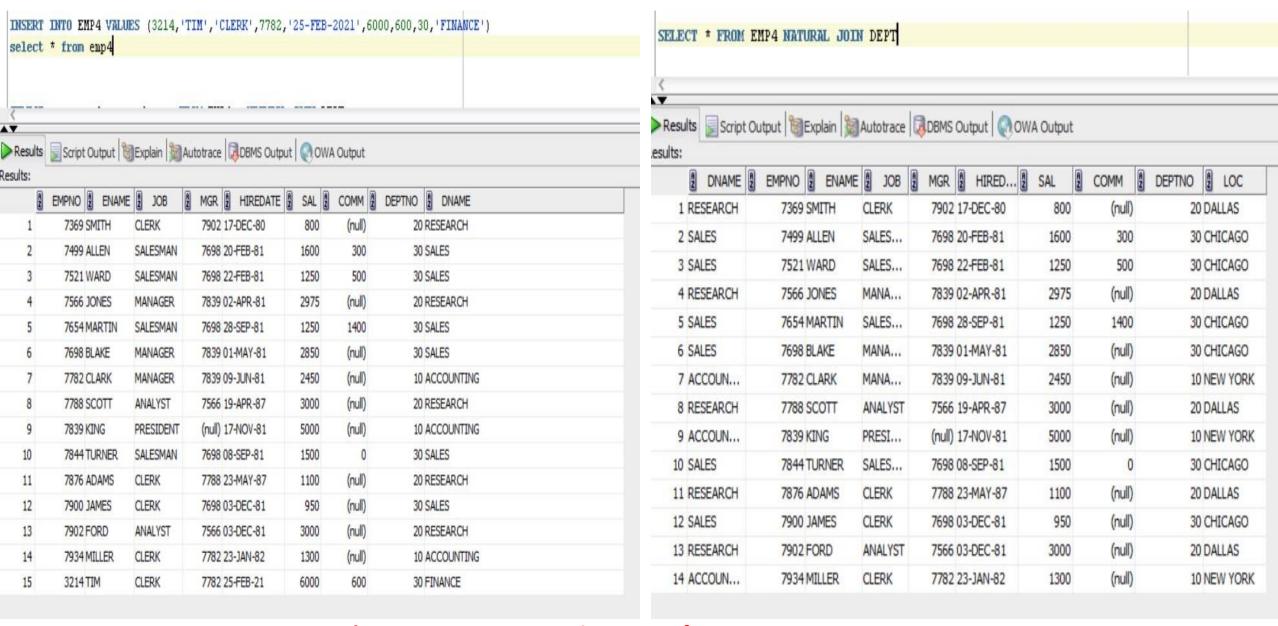
No qualifiers can be used with the common column, if Natural Join keyword is used to form the join





QUALIFIERS WITH COLUMNS NOT ASSOCIATED WITH JOIN

Resu	lts	Script	Output BE	kplain 300 A	utotra
suits:	2 6	EMPNO	DNAME	2 DEPTN	0
1		7369	RESEARCH		20
2		7499	SALES		30
3		7521	SALES		30
4		7566	RESEARCH		20
5		7654	SALES		30
6		7698	SALES		30
7		7782	ACCOUNTING		10
8		7788	RESEARCH		20
9		7839	ACCOUNTING		10
10		7844	SALES		30
11		7876	RESEARCH		20
12		7900	SALES		30
13		7902	RESEARCH		20
14		7934	ACCOUNTING		10



The SQL NATURAL JOIN is a type of EQUI JOIN

UPDATE EMP4 SET DNAME = NULL select * from emp4 Script Output SExplain Autotrace DBMS Output OWA Output Results esults: AZ EMPNO P ENAME D JOB MGR D HIREDATE SAL Z DEPTNO DNAME COMM 7902 17-DEC-80 7369 SMITH CLERK 800 (null) 20 (null) 1 7499 ALLEN SALESMAN 7698 20-FEB-81 1600 300 30 (null) 2 7521 WARD 1250 500 30 (null) 3 SALESMAN 7698 22-FEB-81 (null) 20 (null) 7566 JONES MANAGER 7839 02-APR-81 2975 4 1400 30 (null) 7654 MARTIN SALESMAN 7698 28-SEP-81 1250 5 (null) 30 (null) 6 7698 BLAKE MANAGER 7839 01-MAY-81 2850 7782 CLARK MANAGER 7839 09-JUN-81 2450 (null) 10 (null) 7 (null) 20 (null) 8 7788 SCOTT ANALYST 7566 19-APR-87 3000 7839 KING (null) 17-NOV-81 (null) 10 (null) 9 PRESIDENT 5000 10 30 (null) SALESMAN 7698 08-SEP-81 1500 0 7844 TURNER 7876 ADAMS CLERK (null) 20 (null) 11 7788 23-MAY-87 1100

7698 03-DEC-81

7566 03-DEC-81

7782 23-JAN-82

7782 25-FEB-21

950

3000

1300

6000

(null)

(null)

(null)

600

30 (null)

20 (null)

10 (null)

30 (null)

12

13

14

15

7900 JAMES

7902 FORD

7934 MILLER

3214 TIM

CLERK

CLERK

CLERK

ANALYST

