2. Query Select

Delete
5. Sequences
6. Table
7. Table Joins

7. Table Joins8. View

10. SQL Data Types

11. Character String

Functions

Functions

Functions

Functions

16. Analytical Functions

17. Miscellaneous

Functions

18. Regular Expressions

19. Statistical Functions

20. Linear Regression

27. Function Procedure Packages28. Trigger

Functions

21. PL SQL Data Types

22. PL SQL Statements23. PL SQL Operators

24. PL SQL Programming

25. Cursor26. Collections

29 SOLPLUS

Session

Environment

Data Dictionary
31. System Packages

30. System Tables

32. Object Oriented

34. Large Objects35. Transaction36. User Privilege

33. XML

14. Numerical Math Functions15. Conversion

13. Date Timestamp

12. Aggregate

Set
 Insert Update

An Example of a Left Outer Join 1 : Outer Joins Left Right « Table Joins « Oracle PL/SQL Tutorial

Home
Oracle PL/SQL Tutorial » Table Joins » Outer Joins Left Right

Search

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7.4.3.An Example of a Left Outer Join 1

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```
SQL>
SOL> -- create demo table
SQL> create table Employee(
                     NUMBER(3),
       ENAME
                     VARCHAR2(15 BYTE),
       HIREDATE
                     DATE.
                     NUMBER(6),
       ORIG SALARY
       CURR_SALARY
                     NUMBER(6),
       REGION
                     VARCHAR2(1 BYTE)
  8
Table created.
SQL> create table job (
       EMPNO
                     NUMBER (3).
       jobtitle
                     VARCHAR2(20 BYTE)
Table created.
SOL>
SQL> insert into job (EMPNO, Jobtitle) values (1, 'Tester');
1 row created.
SOL> insert into job (EMPNO, Jobtitle) values (2, 'Accountant');
SOL> insert into job (EMPNO, Jobtitle) values (3, 'Developer');
1 row created.
SOL> insert into job (EMPNO, Jobtitle) values (9, 'Developer');
SQL>
SOL>
SQL> -- prepare data
SQL> insert into Employee(EMPNO, EName,
                                           HIREDATE.
                                                                            ORIG SALARY.
                                                                                                CURR SALARY, REGION)
                                   'Jason', to_date('19960725','YYYYMMDD'), 1234,
                  values (1.
                                                                                                8767.
                                                                                                               'E')
1 row created.
                                                                                                              REGION)
SQL> insert into Employee(EMPNO,
                                  EName,
                                            HIREDATE,
                                                                            ORIG_SALARY,
                                                                                                CURR_SALARY,
  2 /
                  values (2,
                                   'John',
                                            to_date('19970715','YYYYMMDD'), 2341,
                                                                                                3456,
                                                                                                               'W')
1 row created.
SOL> insert into Employee(EMPNO,
                                            HIREDATE,
                                                                            ORIG SALARY,
                                                                                                CURR SALARY,
                                                                                                              REGION)
                                  EName,
                                            to_date('19860125','YYYYMMDD'), 4321,
                                                                                                5654,
                                                                                                               'E')
                  values (3,
                                   'Joe',
  3 /
1 row created.
SQL> insert into Employee(EMPNO,
                                  EName,
                                            HIREDATE,
                                                                            ORIG_SALARY,
                                                                                                CURR_SALARY,
                                                                                                              REGION)
                                            to_date('20060913','YYYYMMDD'), 2413,
                                   'Tom',
                  values (4.
                                                                                                               'W')
  3 /
1 row created.
SQL> insert into Employee(EMPNO, EName,
                                           HIREDATE,
                                                                            ORIG SALARY.
                                                                                                CURR_SALARY,
                                                                                                              REGION)
                                           to_date('20050417','YYYYMMDD'),
                                   'Jane'.
  3 /
1 row created.
SQL> insert into Employee(EMPNO, EName,
                                           HIREDATE,
                                                                            ORIG SALARY.
                                                                                                CURR_SALARY,
                                                                                                              REGION)
                  values (6,
                                   'James', to_date('20040718','YYYYMMDD'),
                                                                                                6546.
                                                                                                               'W')
  3 /
1 row created.
                                           HIREDATE,
SQL> insert into Employee(EMPNO, EName,
                                                                                                CURR_SALARY, REGION)
                                           to_date('20030720','YYYYMMDD'), 5438,
                                   'Jodd',
```

1 of 3 3/24/2013 1:02 AM

```
3 /
1 row created.
SQL> insert into Employee(EMPNO, EName, HIREDATE,
                                                                                ORIG_SALARY,
                                                                                                    CURR_SALARY, REGION)
                                    'Joke', to_date('20020101','YYYYMMDD'), 8765,
                   values (8,
                                                                                                    4543,
                                                                                                                    'W')
1 row created.
SQL> insert into Employee(EMPNO, EName, HIREDATE, ORIG_: values (9, 'Jack', to_date('20010829','YYYYMMDD'), 7896,
                                                                                ORIG_SALARY,
                                                                                                    CURR_SALARY, REGION)
  3 /
SOL>
SQL>
SQL> -- display data in the table SQL> select * from Employee
                            HIREDATE ORIG_SALARY CURR_SALARY R
     EMPNO ENAME
                          25-JUL-96
                                              1234
         2 John
                             15-JUL-97
                                               2341
                                                            3456 W
                             25-JAN-86
                                                            5654 E
         3 Joe
                                               4321
         4 Tom
                             13-SEP-06
                                               2413
                                                            6787 W
         5 Jane
                             17-APR-05
                                               7654
                                                            4345 E
         6 James
7 Jodd
                             18-JUL-04
                                               5679
                                                            6546 W
                             20-JUL-03
                                                            7658 E
                                               5438
         8 Joke
                             01-JAN-02
         9 Jack
                            29-AUG-01
                                               7896
                                                           1232 E
9 rows selected.
SQL> select * from job
     EMPNO JOBTITLE
         1 Tester
         2 Accountant
         3 Developer
         9 Developer
SQL> SELECT e.ename, j.jobtitle FROM employee e, job j WHERE e.empno = j.empno (+);
ENAME
                 JOBTITLE
Jason
                 Tester
John
                 Accountant
Joe
                 Developer
Jack
                 Developer
Jane
Joke
James
Jodd
Tom
9 rows selected.
SQL>
SQL>
SQL>
SOL> -- clean the table
SQL> drop table Employee
Table dropped.
SQL> drop table job
Table dropped.
```

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7.4.Outer Joins Left Right

2 of 3 3/24/2013 1:02 AM

| 7.4.1. | Understanding Outer Joins |
|---------|---|
| 7.4.2. | Left and Right Outer Joins |
| 7.4.3. | An Example of a Left Outer Join 1 |
| 7.4.4. | An Example of a Left Outer Join 2 |
| 7.4.5. | An Example of a Right Outer Join 1 |
| 7.4.6. | An Example of a Right Outer Join 2 |
| 7.4.7. | Perform outer joins in combination with self joins, employee and job tables |
| 7.4.8. | Example outer join with (+) |
| 7.4.9. | Right outer join with using statement |
| 7.4.10. | Right outer join with group by |
| 7.4.11. | LEFT OUTER JOIN tableName ON joined columns |
| 7.4.12. | LEFT OUTER JOIN vs RIGHT OUTER JOIN |
| 7.4.13. | Left Outer Join |
| 7.4.14. | Right Outer Join |
| 7.4.15. | Right Outer Join(room vs class) |
| 7.4.16. | Right join with where in clause |
| | |

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3 of 3