```
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Oracle PL/SQL
Tutorial
                                                     Database Workbench
1. Introduction
                                                                                                                  -
                                                        www.upscene.com
2. Query Select
                                  Complete database development environment for SQL Anywhere
3. Set
                                                                                                                AdChoices D
4. Insert Update
                     7.4.4.An Example of a Left Outer Join 2
   Delete
5. Sequences
6. Table
7.
   Table Joins
                      SQL>
8. View
9. Index
                      SQL>
10. SQL Data Types
                      SQL> -- create demo table
 11. Character String
                      SQL> create table Employee(
   Functions
                              EMPNO
                                             NUMBER (3)
                                             VARCHAR2(15 BYTE).
 12. Aggregate
                              ENAME
                              HIREDATE
   Functions
                                             DATE,
                              ORIG_SALARY
                                             NUMBER(6),
 13. Date Timestamp
                                             NUMBER(6),
VARCHAR2(1 BYTE)
                              CURR_SALARY
    Functions
                              REGION
14. Numerical Math
   Functions
 15. Conversion
                      Table created.
   Functions
 16. Analytical Functions
                      SOL>
17. Miscellaneous
                      SQL> create table job (
   Functions
                              EMPNO
                                             NUMBER (3)
                                             VARCHAR2(20 BYTE)
 18. Regular
                              jobtitle
   Expressions
                        5
19. Statistical
                      Table created.
   Functions
 20. Linear Regression
                      SOL>
   Functions
                      SQL> insert into job (EMPNO, Jobtitle) values (1, 'Tester');
21. PL SQL Data
                      1 row created.
   Types
22. PL SQL
                      SQL> insert into job (EMPNO, Jobtitle) values (2, 'Accountant');
   Statements
23. PL SQL Operators
                      1 row created.
24. PL SQL
                      SQL> insert into job (EMPNO, Jobtitle) values (3, 'Developer');
   Programming
25. Cursor
                      1 row created.
26. Collections
                      SQL> insert into job (EMPNO, Jobtitle) values (4,'COder');
27. Function Procedure
   Packages
                      1 row created.
 28. Trigger
29 SOLPLUS
                      SQL> insert into job (EMPNO, Jobtitle) values (5, 'Director');
   Session
   Environment
                      1 row created
 30. System Tables
                      SQL> insert into job (EMPNO, Jobtitle) values (6, 'Mediator');
   Data Dictionary
31. System Packages
                      1 row created.
32. Object Oriented
                      SQL> insert into job (EMPNO, Jobtitle) values (7, 'Proffessor');
33. XML
34. Large Objects
                      1 row created.
35. Transaction
 36. User Privilege
                      SQL> insert into job (EMPNO, Jobtitle) values (8, 'Programmer');
                      1 row created.
                      SQL> insert into job (EMPNO, Jobtitle) values (9, 'Developer');
                      1 row created.
                      SOL>
                      SQL> -- prepare data
                      SQL> insert into Employee(EMPNO, EName,
                                                                      HIREDATE,
                                                                                                                               CURF
                                                                                                          ORIG_SALARY,
                                          values (1,
                                                            'Jason', to_date('19960725','YYYYMMDD'), 1234,
                        3
                      1 row created.
                      SQL> insert into Employee(EMPNO, EName,
                                                                      HIREDATE,
                                                                                                          ORIG SALARY.
                                                                                                                               CURE
                                                                      to_date('19970715','YYYYMMDD'), 2341,
                                          values (2,
                                                            'John',
                                                                                                                               3456
                      1 row created.
                      SOL> insert into Employee(EMPNO. EName.
                                                                      HTREDATE.
                                                                                                          ORTG SALARY.
                                                                                                                              CURE
```

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SQL> insert into Employee(EMPNO, EName, HIREDATE, ORIG_S values (9, 'Jack', to_date('20010829','YYYYMMDD'), 7896,
                                                                                ORIG SALARY.
                                                                                                    CURF Related Searches:
                                                                                                          Application
                                                                                                          Development
1 row created.
SQL>
                                                                                                          Java Programming
SQL>
                                                                                                          Tutorial
SOL>
SQL> -- display data in the table
SQL> select * from Employee
                                                                                                          Java Programming
                                                                                                         Course
     EMPNO ENAME
                            HIREDATE ORIG_SALARY CURR_SALARY R
1 Jason 25-JUL-96 1234 876
         1 Jason 25-JUL-96
2 John 15-JUL-97
3 Joe 25-JAN-86
9 Jack 29-AUG-01
                                                                                                          Programming
                                                                                                         Using Java
                                              2341
                                                    3456 W
5654 E
1232 E
                          25-JAN-86 4321
29-AUG-01 7896
                                                                                                          Java Classes
SQL> select * from job
     EMPNO JOBTITLE
         1 Tester
         2 Accountant
         3 Developer
         4 COder
         5 Director
6 Mediator
         7 Proffessor
         8 Programmer
         9 Developer
9 rows selected.
SOL>
SQL>
SQL> SELECT e.ename, j.jobtitle FROM employee e, job j WHERE e.empno = j.empno (+);
ENAME
                JOBTITLE
Jason
                Tester
John
                Accountant
                 Developer
Joe
SOL>
SOL>
SQL> -- clean the table
SQL> drop table Employee
Table dropped.
SQL> drop table job
Table dropped.
SQL>
```





7.4. Outer Joins Left Right

- 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

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7.4.6.	An Example of a Right Outer Join 2	
		Related Searches:
7.4.7.	Perform outer joins in combination with self joins, employee and job tables	Application Development
7.4.8.	Example outer join with (+)	Development
7.4.9.	Right outer join with using statement	Java Programming
		Tutorial
7.4.10.	Right outer join with group by	Java Programming
7 4 44	LEET OUTER JOIN (ALAN AND AND AND AND AND AND AND AND AND A	Course
7.4.11.	LEFT OUTER JOIN tableName ON joined columns	Programming
7.4.12.	LEFT OUTER JOIN vs RIGHT OUTER JOIN	Using Java
7.4.13.	Left Outer Join	Java Classes
7.4.13.	Left Outer John	Java Classes
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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