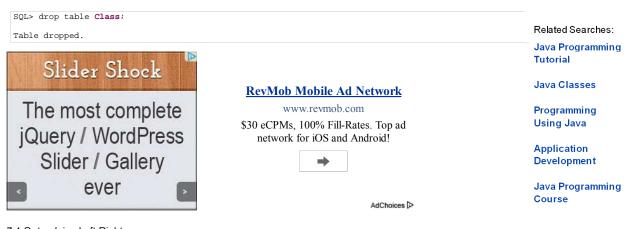
```
Left Outer Join : Outer Joins Left Right « Table Joins « Oracle PL/SQL Tutorial
Home
                     Oracle PL/SQL Tutorial » Table Joins » Outer Joins Left Right
                                                                                                                            Search
Oracle PL/SQL
Tutorial
                                                              Pl Sql
1. Introduction
                                                  www.allroundautomations.com
2. Query Select
                                    PS/SQL Developer! Order now or download the trial version.
3. Set
                                                                                                                AdChoices D
4. Insert Update
                     7.4.13.Left Outer Join
   Delete
5. Sequences
6. Table
7. Table Joins
                      SQL>
8. View
                      SQL> CREATE TABLE Room (
9. Index
                               ROOMID INT NOT NULL PRIMARY KEY.
                               Comments VARCHAR(50),
10. SQL Data Types
                               Capacity INT);
 11. Character String
   Functions
 12. Aggregate
                      SOL> INSERT INTO Room (RoomID, Comments, Capacity) VALUES (1, 'Main hall', 500);
    Functions
 13. Date Timestamp
                      1 row created.
 14. Numerical Math
                      SQL> INSERT INTO Room (RoomID, Comments, Capacity) VALUES (2, 'Science Department', 200);
    Functions
 15. Conversion
                      1 row created.
   Functions
                      SQL> INSERT INTO Room (RoomID, Comments, Capacity) VALUES (3, 'Science Room 1',100);
 16. Analytical Functions
 17. Miscellaneous
                      1 row created.
                      SQL> INSERT INTO Room (RoomID, Comments, Capacity) VALUES (4, 'Languages Block', 300);
 18. Regular
    Expressions
                      1 row created.
    Functions
 19. Statistical
                      SQL> INSERT INTO Room (RoomID, Comments, Capacity) VALUES (5, 'Languages Room 1',75);
   Functions
 20. Linear Regression
                      1 row created.
   Functions
 21. PL SQL Data
                      SOL>
                      SOL>
 22. PL SQL
                      SQL> CREATE TABLE Class (
   Statements
                                            INT NOT NULL PRIMARY KEY,
                               ClassID
23. PL SQL Operators
                                            INT NOT NULL
                               CourseID
                               InstructorID INT NOT NULL,
ROOMID INT NOT NULL,
24. PL SQL
   Programming
                                            VARCHAR(50));
25. Cursor
26. Collections
                      Table created.
 27. Function Procedure
                      SOL> INSERT INTO Class (ClassID, CourseID, InstructorID, RoomID, Time) VALUES (1,1,1,6, 'Mon 09:00-11:00');
   Packages
 28. Trigger
 29. SQL PLUS
    Session
                      SOL> INSERT INTO Class (ClassID, CourseID, InstructorID, RoomID, Time) VALUES (2,2,1,5, 'Mon 11:00-12:00, T
   Environment
 30. System Tables
                      1 row created.
   Data Dictionary
                      SQL> INSERT INTO Class (ClassID, CourseID, InstructorID, RoomID, Time) VALUES (3,3,2,3,'Mon 14:00-16:00');
 31. System Packages
 32. Object Oriented
                      1 row created.
33. XML
                      SOL> INSERT INTO Class (ClassID, CourseID, InstructorID, RoomID, Time) VALUES (4,4,3,2, 'Tue 10:00-12:00, T
34. Large Objects
35. Transaction
36. User Privilege
                      SQL> INSERT INTO Class (ClassID, CourseID, InstructorID, RoomID, Time) VALUES (5,5,2,9, 'Tue 14:00-16:00');
                      1 row created.
                      SQL>
                      SQL>
                      SQL> SELECT Room.RoomID, Class.Time
                           FROM Room
                               LEFT OUTER JOIN Class
                               ON Room.RoomID = Class.RoomID
                           ORDER BY Room.RoomID;
                          ROOMID TIME
                                          ._____
                                  Tue 10:00-12:00, Thu 14:00-15:00
                                3 Mon 14:00-16:00
                                5 Mon 11:00-12:00, Thu 09:00-11:00
                      5 rows selected.
                      SQL>
```

1 of 2 3/24/2013 1:05 AM



## 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
- 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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2 of 2