





















```
SELECT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
                 cou.course_no,
                 cou.description,
loj.course_no AS pre_req,
loj.description AS pre_desc
        FROM
        course cou
LEFT OUTER JOIN
                 course loj
        ON
                 loj.course_no = cou.prerequisite
        ORDER BY
                 cou.course_no;
Script Output X
📌 🥓 🖥 🖺 🔋 🗆 Task completed in 0.257 seconds
 COURSE_NO DESCRIPTION
                                                                                                                                   PRE_REQ PRE_DESC
             134 Advanced Unix Admin
135 Unix Tips and Techniques
                                                                                                                                            132 Basics of Unix Admin
134 Advanced Unix Admin
             140 Systems Analysis
142 Project Management
144 Database Design
                                                                                                                                            20 Intro to Information Systems
20 Intro to Information Systems
420 Database System Principles
             145 Internet Protocols
146 Java for C/C++ Programmers
                                                                                                                                            310 Operating Systems
             147 GUI Design Lab
204 Intro to SQL
210 Oracle Tools
220 PL/SQL Programming
                                                                                                                                            20 Intro to Information Systems
20 Intro to Information Systems
220 PL/SQL Programming
80 Programming Techniques
 COURSE_NO DESCRIPTION
                                                                                                                                   PRE_REQ PRE_DESC
            230 Intro to the Internet
240 Intro to the BASIC Language
310 Operating Systems
330 Network Administration
350 Java Developer II
420 Database System Principles
430 Java Developer III
                                                                                                                                             10 Technology Concepts
25 Intro to Programming
                                                                                                                                            130 Intro to Unix
                                                                                                                                           125 Java Developer I
25 Intro to Programming
350 Java Developer II
350 Java Developer II
             450 DB Programming with Java
```

30 rows selected.

```
Worksheet
            Query Builder
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
     SELECT
           cou.course_no,
           cou.description,
           CASE
                WHEN loj.course_no IS NULL THEN 'n/a' ELSE TO_CHAR(loj.course_no)
           END AS pre_req
           CASE
                WHEN loj.description IS NULL THEN 'none'
                ELSE loj.description
           END AS pre_desc
     FROM
           course cou
     LEFT OUTER JOIN
           course loj
           loj.course_no = cou.prerequisite
     ORDER BY
20
           cou.course_no;
Script Output X
📌 🤣 🖥 📕 🗆 Task completed in 0.091 seconds
        134 Advanced Unix Admin
135 Unix Tips and Techniques
                                                                                                                                         Basics of Unix Admin
Advanced Unix Admin
                                                                                  132
                                                                                  134
        140 Systems Analysis
142 Project Management
                                                                                  20
                                                                                                                                         Intro to Information S
                                                                                                                                         Intro to Information S
                                                                                  20
        144 Database Design
                                                                                  420
                                                                                                                                         Database System Princi
        145 Internet Protocols
146 Java for C/C++ Programmers
                                                                                  310
                                                                                                                                         Operating Systems
                                                                                                                                         none
                                                                                  n/a
                                                                                                                                         Intro to Information S
Intro to Information S
PL/SQL Programming
        147 GUI Design Lab
204 Intro to SQL
                                                                                  20
20
        210 Oracle Tools
                                                                                  220
        220 PL/SQL Programming
                                                                                  80
                                                                                                                                         Programming Techniques
```

PRE_REQ

10 25

n/a

130

125

25 350 PRE_DESC

none

Technology Concepts Intro to Programming

Intro to Programming

Intro to Unix

Java Developer I

Java Developer II

COURSE_NO DESCRIPTION

230 Intro to the Internet 240 Intro to the BASIC Language

420 Database System Principles

310 Operating Systems 330 Network Administration

350 Java Developer II

430 Java Developer III

```
SELECT
 1
2
3
4
5
6
7
8
9
10
         stu.first_name,
         stu.last_name,
         zip.city
    FROM
         student stu
    RIGHT OUTER JOIN
         zipcode zip
     ON
         stu.zip = zip.zip;
 11
Script Output *
📌 🤣 🖥 🛓 Task completed in 0.128 seconds
                                                       Middlefield
                                                       New York
                                                       New Milford
                                                       Jackson Heights
                                                       Hackensack
                                                       Jackson Heights
                                                       Central Islip
FIRST_NAME
                           LAST_NAME
                                                       CITY
                                                        E. Cliffs
                                                        Oradell
                                                       West Islip
                                                        Rego Park
                                                        Fair Lawn
                                                       Bergenfield
                                                       Norwood
                                                        Astoria
                                                        Weston
350 rows selected.
```

```
Worksheet
             Query Builder
      SELECT
 1
2
3
4
5
6
7
8
9
           cou.course_no,
           cou.description,
           loj.course_no AS pre_req,
           loj.description AS pre_desc
     FROM
      course <mark>cou</mark>
FULL OUTER JOIN
           course loj
 10
      ON
 11
           loj.course_no = cou.prerequisite
 12
     ORDER BY
           cou.course_no;
Script Output *
📌 🥟 🖥 🚇 📕 🗆 Task completed in 0.1 seconds
        430 Java Developer III
                                                                                         350 Java Developer II
                                                                                         350 Java Developer II
230 Intro to the Internet
240 Intro to the BASIC Languag
147 GUI Design Lab
        450 DB Programming with Java
 COURSE_NO DESCRIPTION
                                                                                    PRE_REQ PRE_DESC
                                                                                         146 Java for C/C++ Programmers
                                                                                         330 Network Administration
                                                                                         124 Advanced Java Programming
                                                                                         430 Java Developer III
                                                                                         450 DB Programming with Java
145 Internet Protocols
100 Hands-On Windows
144 Database Design
                                                                                         142 Project Management
                                                                                         210 Oracle Tools
                                                                                         135 Unix Tips and Techniques
44 rows selected.
```