Practices for Lesson 9: Using the Set Operators

Chapter 9

Practices for Lesson 9: Overview

Practice Overview

In this practice, you create reports by using the following set operators:
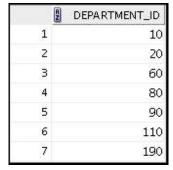
- UNION
- INTERSECT
- MINUS

Practice 9-1: Using Set Operators

Overview

In this practice, you write queries by using the set operators `UNION`, `INTERSECT`, and `MINUS`.

Tasks

1. The HR department needs a list of department IDs for departments that do not contain the job ID `ST_CLERK`. Use the set operators to create this report.

	DEPARTMENT_ID
1	10
2	20
3	60
4	80
5	90
6	110
7	190

2. The HR department needs a list of countries that have no departments located in them. Display the country IDs and the names of the countries. Use the set operators to create this report.

	COUNTRY_ID	COUNTRY_NAME
1	DE	Germany

3. Produce a list of all the employees who work in departments 50 and 80. Display the employee ID, job ID, and department ID by using the set operators.

	EMPLOYEE_ID	JOB_ID	DEPARTMENT_ID
1	124	ST_MAN	50
2	141	ST_CLERK	50
3	142	ST_CLERK	50
4	143	ST_CLERK	50
5	144	ST_CLERK	50
6	149	SA_MAN	80
7	174	SA_REP	80
8	176	SA_REP	80

4. Create a report that lists the details of all employees who are sales representatives and are currently working in the sales department.

	EMPLOYEE_ID
1	174
2	176

5. The HR department needs a report with the following specifications:

- Last names and department IDs of all employees from the `EMPLOYEES` table, regardless of whether or not they belong to a department

- Department IDs and department names of all departments from the `DEPARTMENTS` table, regardless of whether or not they have employees working in them

Write a compound query to accomplish this report.

	LAST_NAME	DEPARTMENT_ID	DEPT_NAME
1	Abel	80	(null)
2	Davies	50	(null)
3	De Haan	90	(null)
4	Ernst	60	(null)
5	Fay	20	(null)
6	Gietz	110	(null)
7	Grant	(null)	(null)
8	Hartstein	20	(null)
9	Higgins	110	(null)
10	Hunold	60	(null)
11	King	90	(null)
12	Kochhar	90	(null)
13	Lorentz	60	(null)
14	Matos	50	(null)
15	Mourgos	50	(null)
16	Rajs	50	(null)
17	Taylor	80	(null)
18	Vargas	50	(null)
19	Whalen	10	(null)
20	Zlotkey	80	(null)
21	(null)	10	Administration
22	(null)	20	Marketing
23	(null)	50	Shipping
24	(null)	60	IT
25	(null)	80	Sales
26	(null)	90	Executive
27	(null)	110	Accounting
28	(null)	190	Contracting