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230701514

Ex.No.: 7		USING SET OPERATORS
Date:	28.08.2024	

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

```
SELECT department_id FROM departments MINUS SELECT department_id  
FROM employees WHERE job_id = 'ST_CLERK';
```

DEPARTMENT_ID
10
20
30
40
50
80
90
100

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

```
SELECT country_id, country_name FROM countries MINUS SELECT country_id,  
country_name FROM departments;
```

CN	China
BR	Brazil

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3. Produce a list of jobs for departments 10, 50, and 20, in that order. Display job ID and department ID using set operators.

```
SELECT job_id, department_id FROM employees WHERE department_id = 10  
UNION
```

```
SELECT job_id, department_id FROM employees WHERE department_id = 50  
UNION
```

```
SELECT job_id, department_id FROM employees WHERE department_id = 20;
```

JOB_ID	DEPARTMENT_ID
AC_ACCOUNT	20
AC_MGR	50
HR_REP	20
IT_PROG	10
IT_PROG	50
SA_MAN	50
ST_CLERK	10

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4. Create a report that lists the employee IDs and job IDs of those employees who currently have a job title that is the same as their job title when they were initially hired by the company (that is, they changed jobs but have now gone back to doing their original job).

```
SELECT employee_id, job_id FROM employees  
INTERSECT  
SELECT employee_id, job_id FROM job_history;
```

EMPLOYEE_ID	JOB_ID
201	IT_PROG
202	HR_REP
203	SA_REP
204	IT_PROG
205	HR_REP
206	SA_REP
207	IT_PROG
208	SA_REP
209	IT_PROG
210	HR_REP

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

- Last name and department ID of all the employees from the EMPLOYEES table, regardless of whether or not they belong to a department.

- Department ID and department name of all the departments from the DEPARTMENTS table, regardless of whether or not they have employees working in them. Write a compound query to accomplish this.

```
SELECT last_name, department_id FROM employees
UNION
SELECT department_name, department_id FROM departments;
```

Andrea	10
Austin	50
Brown	-
Clark	-
Silva	-
Smith	70
Tanaka	-
Taylor	20
Thomas	60
Wei	-
Wilson	80