

# DAY 9

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PRN : 200243020003

## Set operators

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.

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

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.

```
SELECT
    country_id,
    country_name
FROM
    countries MINUS
    SELECT
        l.country_id,
        c.country_name
    FROM
        locations l
        JOIN countries c ON (l.country_id = c.country_id)
        JOIN departments d ON d.location_id = l.location_id;
```

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

```
SELECT DISTINCT
    job_id,
    department_id
```

```
FROM
    employees
WHERE
    department_id = 10
UNION ALL SELECT DISTINCT
    job_id,
    department_id
FROM
    employees
WHERE
    department_id = 50
UNION ALL SELECT DISTINCT
    job_id,
    department_id
FROM
    employees
WHERE
    department_id = 20;
```

**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;
```

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

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

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

```
SELECT
    last_name,
    department_id,
    TO_CHAR(NULL)
FROM
```

```
employees
UNION
SELECT
  TO_CHAR(NULL),
  department_id,
  department_name
FROM
  departments;
```