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Ex.No.: 7		USING SET OPERATORS	
Date:	27/08/2024		

After the completion this exercise, the students should be able to do the following:

- · Describe set operators
- Use a set operator to combine multiple queries into a single query
- Control the order of rows returned

The set operators combine the results of two or more component queries into one result.

Queries containing set operators are called compound queries.

Operator	Returns
מפומט	All distinct rows selected by either query
UNION ALL	All rows selected by either query, including all duplicates
INTERSECT	All distinct rows selected by both queries
MINUS	All distinct rows that are selected by the first SELECT statement and not selected in the second SELECT statement

The tables used in this lesson are:

- EMPLOYEES: Provides details regarding all current employees
- JOB_HISTORY: Records the details of the start date and end date of the former job, and the

identification number and department when an employee switches jobs

UNION Operator

Guidelines

- The number of columns and the data types of the columns being selected must be identical in all the SELECT statements used in the query. The names of the columns need not be identical.
- UNION operates over all of the columns being selected.
- NULL values are not ignored during duplicate checking.
- The IN operator has a higher precedence than the UNION operator.

1. Select department-id From employees Minus Select dopositment id From employees where upper (job-id)=upper (6ST_CERH) 08 der 64 1;

2. Select Country-id, Country-name From Countries Minus Select Country-id, Country-name From countries C Join Locations L wing (country_id) join depositments d using(location_id) where department id is not null)

Display 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 (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;

Example

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

MINUS Operator

Guidelines

- The number of columns and the data types of the columns being selected by the SELECT statements in the queries must be identical in all the SELECT statements used in the query. The names of the columns need not be identical.
- All of the columns in the WHERE clause must be in the SELECT clause for the MINUS operator to work.

Example:

Display the employee IDs of those employees who have not changed their jobs even once.

SELECT employee_id.job_id
FROM employees
MINUS
SELECT employee_id.job_id
FROM job_history;
Find the Solution for the following:

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.

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.

3) Select distinct Job-id, depastment-id from employees when department - 1d = 10 union all Select distinct Job-Id, depositment-id from employees Where department - il =50 Cerion all Select distict job-id, depositment-id From employees where department-id=20;

4. Select employee_id, job_id from employee Inter Sect Select employer -id, job id from job-history Oxdex by 1;

5. Select lost-name, department-id, to-char (inull') From employees Which Select to_etron ("hull"), depostment-id, depostment name from depositments i by top A

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

- 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.

Evaluation Procedure	Marks awarded
Query(5)	2
Execution (5)	5
Viva(5)	4
Total (15)	14
Faculty Signature	R