Ex.No.: 7	
	USING SET OPERATORS
Date: 27/8/22	
1/8/24	

Objectives

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	
иодии	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 job

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 department-id

 From employees

 where upper (job-id) = upper ('ST. CIERK')

 Order by 1;
- d. Select country-id, country-name From countries

Select country-ial, country-name

From countries c

Join location &

using (country-id)

J'oin departments of

using (location-id)

using (location-id)

where obspartment-id is not null;

- 3) Select clistinet job-id, department-id

 From employees

 where department-id = 10

 elinion all

 Select clistinet job-id, department-id

 From employees

 where department-id = 50

 Union all

 Select clistinet job-id, department-id

 Select clistinet job-id, department-id

 From employees

 where department-id = 20;
- 4) select employee -id, job-id
 From employees

 Intersect
 Select employee -id, job-id
 From job-history
 Order by 1;
 - 5) Select last_name, department_id,
 To_chan ('nul')

 From employees

 Union

 select to-chan ('nul'), department_id,

 department-name

 From alignorements

 order by 1;

- 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)	5
Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	2