## DBMS(DAY 2)

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### POINTS TO DISCUSS

- Distinct statement
- Where Clause
- Order By Keyword
- And, Or, Not Operator
- In, Not in Operator
- Between Operator
- SQL Aliases
- Extract function
- Dual

### DISTINCT STATEMENT

- The SELECT DISTINCT statement is used to return only distinct (different) values.
- Inside a table, a column often contains many duplicate values; and sometimes you only want to list the different (distinct) values.

#### **SELECT DISTINCT Syntax**

SELECT DISTINCT column1, column2, ... FROM table\_name;

### SQL WHERE CLAUSE

- The WHERE clause is used to filter records.
- The WHERE clause is used to extract only those records that fulfill a specified condition.

#### **WHERE Syntax**

SELECT column1, column2, ...
FROM table\_name
WHERE condition;

 Note: The WHERE clause is not only used in SELECT statement, it is also used in UPDATE, DELETE statement, etc.!

### SQL ORDER BY KEYWORD

- The ORDER BY keyword is used to sort the result-set in ascending or descending order.
- The ORDER BY keyword sorts the records in ascending order by default. To sort the records in descending order, use the DESC keyword.

#### **ORDER BY Syntax**

SELECT column1, column2, ...
FROM table\_name
ORDER BY column1, column2, ... ASC|DESC;

### THE SQL AND, OR AND NOT OPERATORS

The AND and OR operators are used to filter records based on more than one condition:

- The AND operator displays a record if all the conditions separated by AND are TRUE.
- The OR operator displays a record if any of the conditions separated by OR is TRUE.
- The NOT operator displays a record if the condition(s) is NOT TRUE.

#### **AND Syntax**

SELECT column1, column2, ...
FROM table\_name
WHERE condition1 AND condition2 AND condition3 ...;

#### **OR Syntax**

SELECT column1, column2, ...
FROM table\_name
WHERE condition1 OR condition2 OR condition3 ...;

#### **NOT Syntax**

SELECT column1, column2, ...
FROM table\_name
WHERE NOT condition;

### SQL IN OPERATOR

- The IN operator allows you to specify multiple values in a WHERE clause.
- The IN operator is a shorthand for multiple OR conditions.

#### **IN Syntax**

SELECT column\_name(s)
FROM table\_name
WHERE column\_name IN (value1, value2, ...);

#### OR

SELECT column\_name(s)
FROM table\_name
WHERE column\_name IN (SELECT STATEMENT);

### BETWEEN OPERATOR

- The BETWEEN operator selects values within a given range. The values can be numbers, text, or dates.
- The BETWEEN operator is inclusive: begin and end values are included.

#### **BETWEEN Syntax**

SELECT column\_name(s)
FROM table\_name
WHERE column\_name BETWEEN value1 AND value2;

### SQL ALIASES

- SQL aliases are used to give a table, or a column in a table, a temporary name.
- Aliases are often used to make column names more readable.
- An alias only exists for the duration of the query.

#### **Alias Column Syntax**

SELECT column\_name AS alias\_name FROM table\_name;

#### **Alias Table Syntax**

SELECT column\_name(s)FROM table\_name AS alias\_name;

### EXTRACT() FUNCTION

The EXTRACT() function extracts a part from a given date

#### **Syntax**

EXTRACT(part FROM date);

### DUAL

**DUAL** is a table automatically created by Oracle Database along with the data dictionary. **DUAL** is in the schema of the user SYS but is accessible by the name **DUAL** to all users. It has one column, DUMMY, defined to be VARCHAR2(1), and contains one row with a value X.

# THANK YOU