### Microsoft SQL Server 2019 Design & Develop



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## منطق سه ارزشی



#### NULL

- It's not a value
- It's a mark for missing value

#### The Possible values of a predicate in SQL are:

- TRUE
- FALSE
- UNKNOWN

#### The Logical value of these expressions is UNKNOWN:

• NULL > 179

NULL < 179

**NULL** = 179

• NULL = NULL

X + NULL > Y

1 + NULL > 10

## (3) GROUP BY



- Generate groups
  - Based on GROUP BY clause
- One row per each group
  - unique combination of values
- After GROUP BY
  - Expressions specified in GROUP BY clause
  - AGG Function
    - MAX()
    - MIN()
    - SUM()
    - AVG()
    - COUNT()

# (4) HAVING



• Filters the Groups

# (5-2) DISTINCT



Remove duplicate rows

## (6) ORDER BY



- Orders the rows
- Options:
  - ASC (Default Option) / DESC
  - Column
  - Expression
  - Alias
  - Column Position,
  - Composite (Tie Breaker)

# (7) TOP(7) OFFSET-FETCH



- TOP
  - Filter Rows
- TOP Options:
  - (n) rows
  - (n) PERCENCT
- OFFSET-FETCH
  - ORDER BY
    - Skip Rows
    - Filter Rows

# DataToInsight.ir

# مطالعه بيشتر

منطق سه ارزشی چیست؟