AND, OR and NOT operators

AND Operator

Both conditions must be true in order for the results to be displayed

SELECT \*

FROM Customers

WHERE birth\_date > '1990-01-01' AND points > 1000;

-- This is AND operator here both conditions must be true to display

OR operator

one condition must be true to display

SELECT \*

FROM Customers

WHERE birth\_date > '1990-01-01' OR points > 1000;

-- OR operator here one condition must be true to display

2nd variation of OR

SELECT \*

FROM Customers

WHERE birth\_date > '1990-01-01' OR points > 1000 AND state = 'VA'

-- OR operator here one condition must be true to display

-- Query execution engine first evaluates the AND operator before the OR operator

NOT operator

SELECT \*

FROM Customers

WHERE NOT (birth\_date > '1990-01-01' OR

points > 1000)

-- This query is using the NOT operator to give the result of the opposite of true

-- The result will display birthdates before 1990-01-01 and those with less than 1000 points

\*\*Below is the simplified version of the above query without using NOT operator

SELECT \*

FROM Customers

WHERE birth\_date <= '1990-01-01' AND

points <= 1000

\*\*Exercise

SELECT \*

FROM order\_items

WHERE order\_id = 6 AND quantity \* unit\_price > 30;

-- Asking to query from order\_items table, get the items for order #6

-- where total price is greater than 30