

DML - Select Statement

In this session, you will learn:



- How to specify condition using WHERE Clause
- Types of condition



WHERE Clause



• Used to specify condition while retrieving data from table.

Syntax

SELECT < column_list > FROM WHERE < condition >;

Customer						
Customer _ld	FirstName	Street	City	Zip_Co de	Phone	
100	ABC	Central	Chennai	641088	9852754812	
101	XYZ	Velacherry	Chennai	641088	5872526262	
103	FEG	Lakeview	Ooty	465424	4541565996	

Example

SELECT FirstName FROM Customer WHERE Customer_Id = 101;

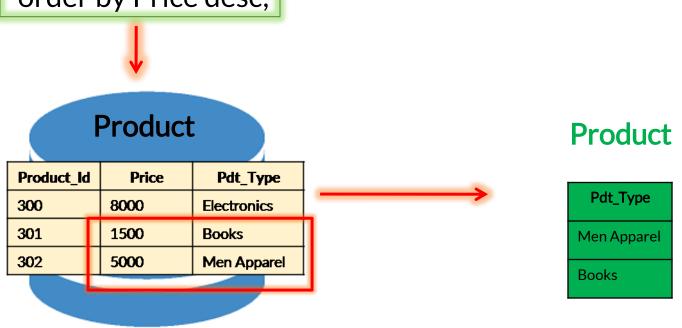
> FirstName XYZ

WHERE clause using comparison conditions



Example



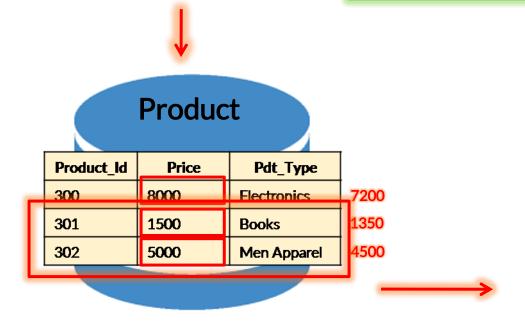


WHERE clause using expression



Example

SELECT Product_Id, Price, Pdt_Type, (Price - (Price*0.10)) from Product WHERE (Price - (Price*0.10)) < 5000;



Product

Product_I d	Price	Pdt_Type	(Price - (price*0.10))
301	1500	Books	1350
302	5000	Men Apparel	4500

Using Column Aliases(AS)

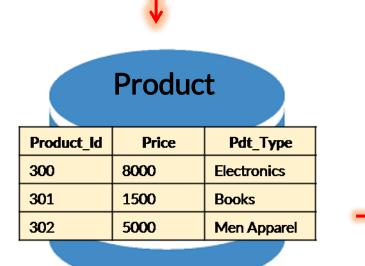


Example

SELECT Product_Id, Price, Pdt_Type,

(Price - (Price*0.10)) AS Price_After_Discount

from Product WHERE (Price - (Price*0.10)) < 5000;



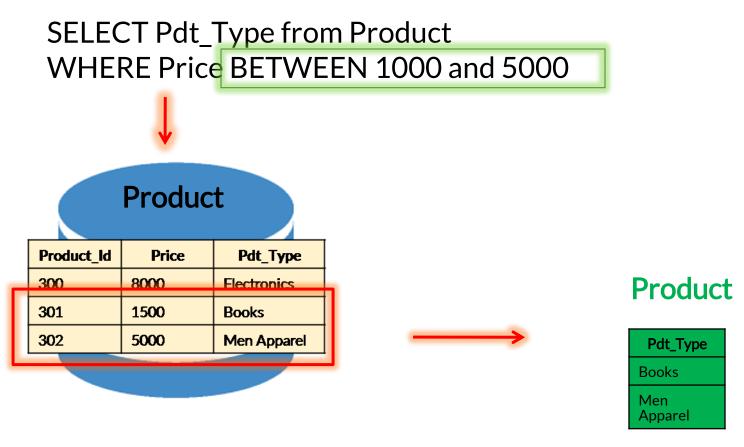
Product

Product_I d	Quantity	Pdt_Type	Price_After_ Discount
301	1500	Books	1350
302	5000	Men Apparel	4500

WHERE clause using BETWEEN condition



Example



WHERE clause using IN condition



Example

SELECT FirstName from Customer WHERE City IN ('Chennai', 'CBE')



Customer _ld	FirstName	Street	City	Zip_Co de	Phone
100	ABC	Central	Chennai	641088	9852754812
101	XYZ	Velacherry	Chennai	641088	5872526262
103	FEG	Lakeview	Ooty	465424	4541565996
102	PQR	PNP	CBE	641323	8893992919
106	MNO	Electronic	Bangalo re	666743	8173578292

Customer

ABC
XYZ
PQR

WHERE clause using LIKE condition



Wildcard operators

Percent sign(%): represents zero, one or more than one character.

Underscore sign() : represents only one character.

Syntax

SELECT column_name(s) FROM table_name WHERE column_name LIKE pattern;

WHERE clause using LIKE condition



Example

SELECT FirstName from Customer WHERE FirstName LIKE 'A%a'



Customer _ld	FirstName	Street	City	Zip_Co de	Phone
100	Arun	Central	Chennai	641088	9852754812
101	Meena	Velacherry	Chennai	641088	5872526262
103	Anu	Lakeview	Ooty	465424	4541565996
102	Karthi	PNP	CBE	641323	8893992919
106	Ananya	Electronic	Bangalo re	666743	8173578292

Customer

FirstName
Ananya

WHERE clause using REGEXP_LIKE condition

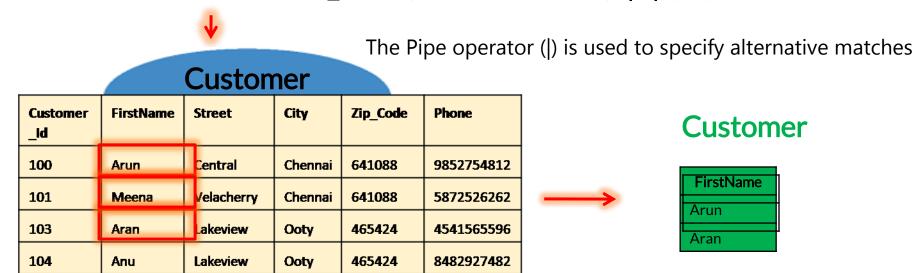


Syntax

SELECT column_name(s) FROM table_name WHERE column_name REGEXP_LIKE (expression, pattern [, match_parameter])

Example

SELECT FirstName from Customer WHERE FirstName REGEXP_LIKE (FirstName, 'Ar(o|u|a)n');



SELECT FirstName from Customer WHERE FirstName REGEXP_LIKE

(FirstName, '([aeiou])\1', 'i');

FirstName

Meena

'([aeiou])\1': This is the regular expression pattern being used for matching.

\1: This is a backreference to the first capturing group. It matches the same text as most recently matched by the 1st capturing group, essentially requiring the same vowel to appear consecutively.

'i': This is an optional parameter indicating the match should be case-insensitive.

WHERE clause using NULL condition



Example

SELECT Order_Id, Pdt_Id, Quantity from Product_Orders WHERE Discount IS NULL



Product_Orders

Order_ ld	Pdt_ld	Quantity	Discount
200	300	1	null
200	301	5	0.10
201	301	2	0.12



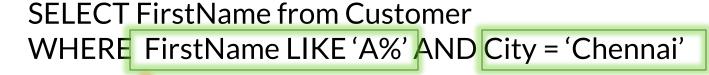
Product_Orders

Order_ Id	Pdt_ld	Quantity
200	300	1

WHERE clause using Logical condition



Example using AND Operator



Customer

Customer _ld	FirstName	Street	City	Zip_Co de	Phone
100	Arun	Central	Chennai	641088	9852754812
101	Meena	Velacherry	Chennai	641088	5872526262
103	Anu	Lakeview	Ooty	465424	4541565996
102	Karthi	PNP	CBE	641323	8893992919
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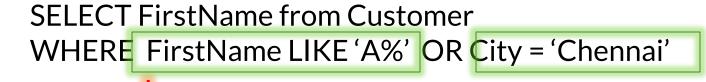
Customer



WHERE clause using Logical condition



Example using OR Operator



Customer

Customer _ld	FirstName	Street	City	Zip_Co de	Phone
100	Arun	Central	Chennai	641088	9852754812
101	Meena	Velacherry	Chennai	641088	5872526262
103	Anu	Lakeview	Ooty	465424	4541565996
102	Karthi	PNP	CBE	641323	8893992919
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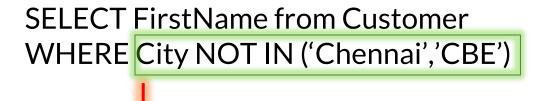
Customer

FirstName
Arun
Meena
Anu
Ananya

WHERE clause using Logical condition



Example using NOT Operator



Customer

Customer _ld	FirstName	Street	City	Zip_Co de	Phone
100	Arun	Central	Chennai	641088	9852754812
101	Meena	Velacherry	Chennai	641088	5872526262
103	Anu	Lakeview	Ooty	465424	4541565996
102	Karthi	PNP	CBE	641323	8893992919
106	Ananya	Electronic	Bangalo re	666743	8173578292

Customer

Anu
Ananya

THANKS

