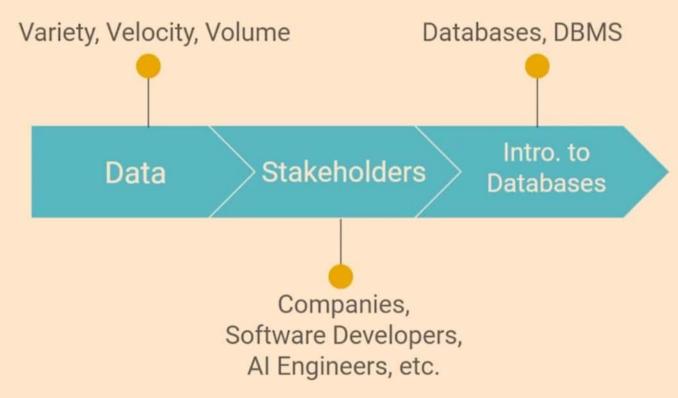
oce42

Agenda for Today's Session

### Introduction to Databases









- Data
  - Volume
  - Variety
  - Velocity
- Importance of data
- How various stakeholders use data
- Database
- DBMS









### Introduction to Database



Advantages of DBMS

Types of Databases Relational Database & DBMS Non-Relational
Database &
DBMS





- Database
- Database Management Systems
- Types of Databases
  - Relational Databases
  - Non-Relational Databases
- Non Relational & Relational DBMS

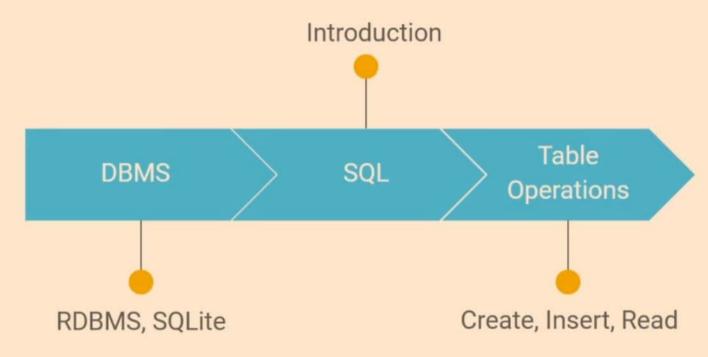






# Introduction To SQL









#### Introduction To SQL Part - 1

- DBMS
- Relational DBMS
- Introduction To SQL
- SQL Queries
  - Creating Table
  - Inserting Data
  - Retrieving Data





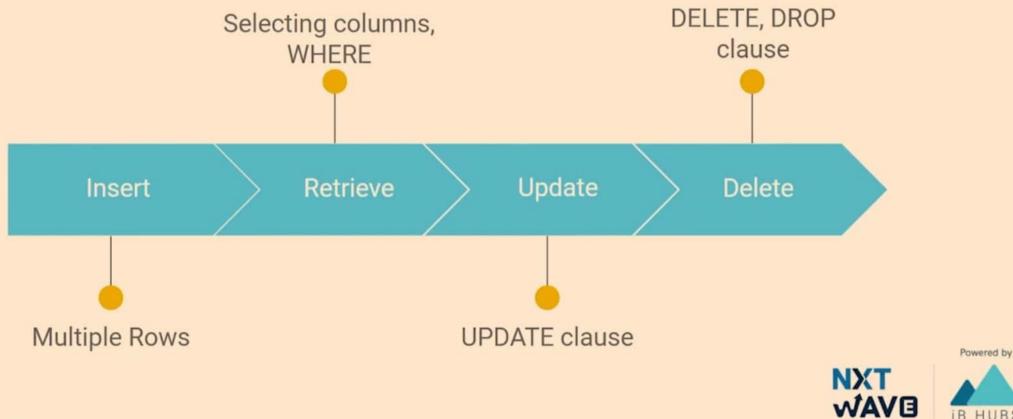




6bce42

# Introduction To SQL Part-2







#### SQL Queries

- Inserting Data
- Retrieving Data
- Updating Data
- Deleting Table
- Updating Table







#### Database

### **Table Information**





cid	name	type	not null	dflt_value	pk
0	name	VARCHAR(250)	0		0
1	category	VARCHAR(250)	0		0
2	price	INT	0		0
3	brand	VARCHAR(250)	0		0
4	rating	FLOAT	0		0





6bce42 Agenda for Today's Session Querying With SQL - Part 1 < , <=, >, >=, % and \_ LIKE etc Need for Querying String Comparison WildCard Operators Querying Operations Operators Characters Introduction startswith, endswith etc Powered by patterns **NXT EVAW** 



- Introduction to Querying
- Comparison Operators

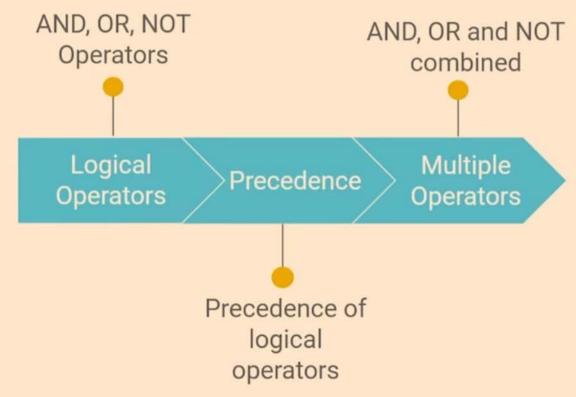
- String Operations
- LIKE Operator



6bce42

# Querying With SQL - Part 2









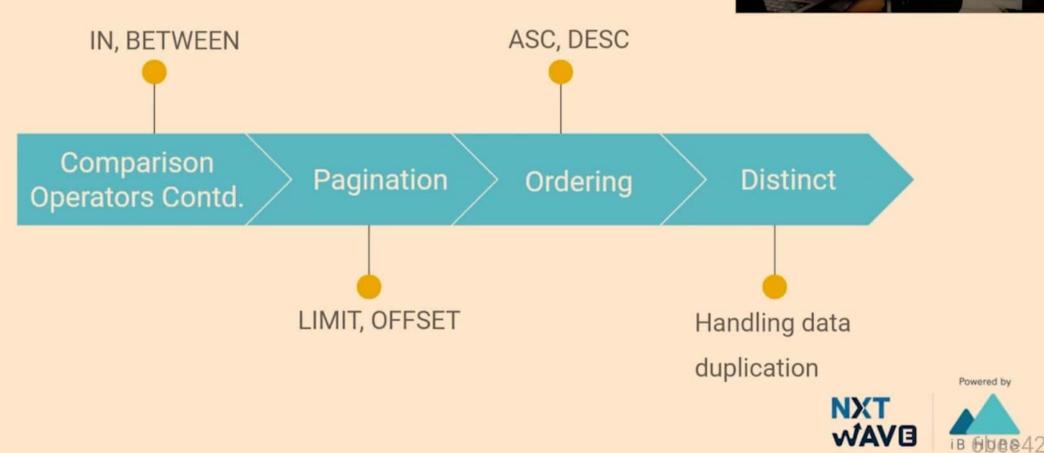
6bce42

- Logical Operators
  - AND Operator
  - OR Operator
  - NOT Operator
- Precedence
- Using multiple logical operators



# Querying With SQL - Part 3





- Comparison Operators
  - o IN
  - BETWEEN
- Pagination
  - o LIMIT
  - OFFSET
- Ordering results
- Distinct results









Agenda for Today's Session Aggregations SUM, MIN, MAX, AS COUNT, AVG Special Aggregate Aggregations Alias **Functions** Cases Introduction NULL values, Non-numeric Powered by **NXT** values, etc. **WAVB** bce42



- Aggregate Functions
  - o Sum
  - Average
  - o Min
  - Max
  - o Count
- Alias







bce42

Agenda for Today's Session

### **GROUP BY**



**GROUP BY** 

GROUP BY on Multiple Columns

Applying Filters Query Walkthrough





- GROUP BY
  - With multiple columns
  - With WHERE Clause







ce42

Agenda for Today's Session

### **GROUP BY with HAVING**



Query Walkthrough

**HAVING** clause

WHERE vs HAVING







- Query Walkthrough
- GROUP BY
  - With HAVING
- WHERE vs HAVING

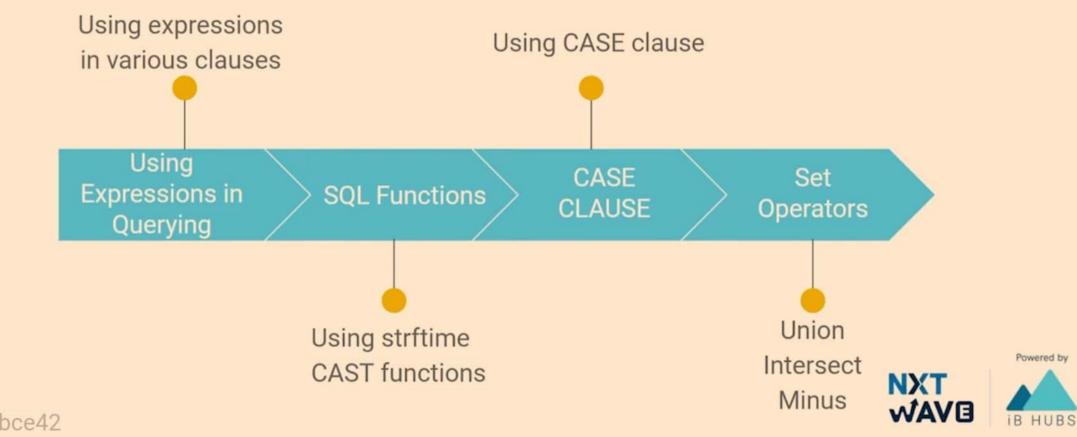






### Common Concepts







- Using expressions in SQL
- Case statements
- SQL Functions
- Set operations
  - o Union, Union All
  - Intersect
  - o Minus





