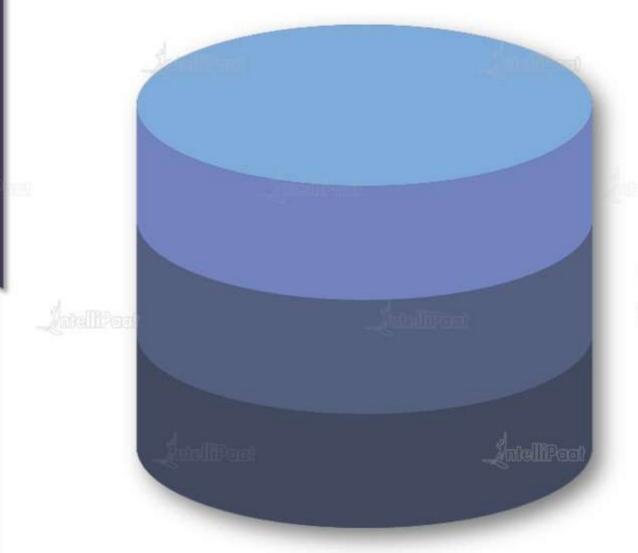


SQL Tutorial





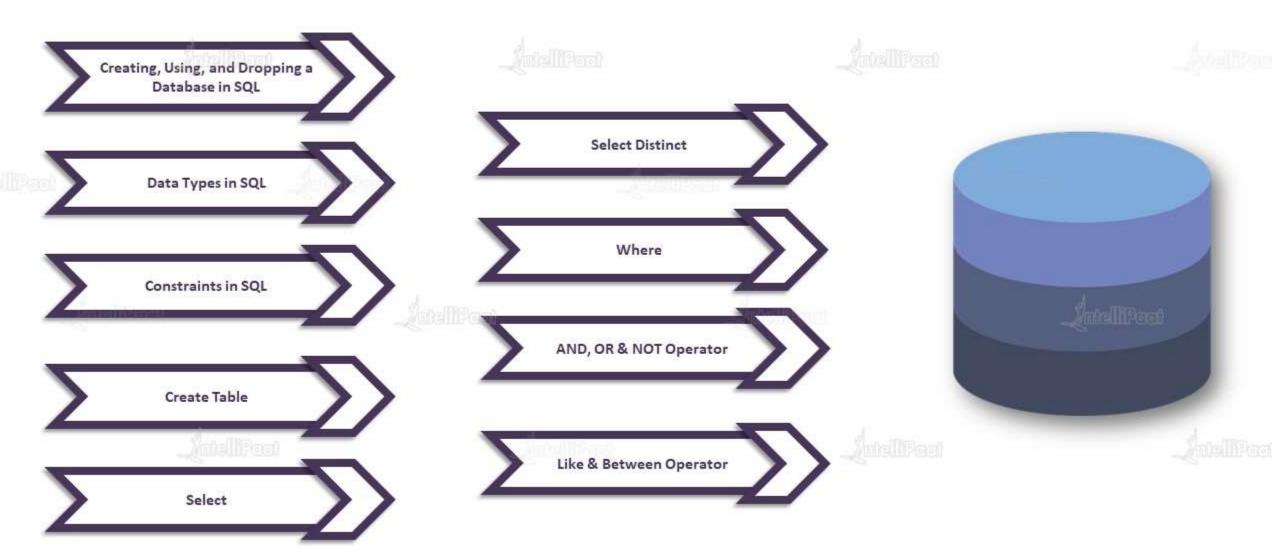


Agenda



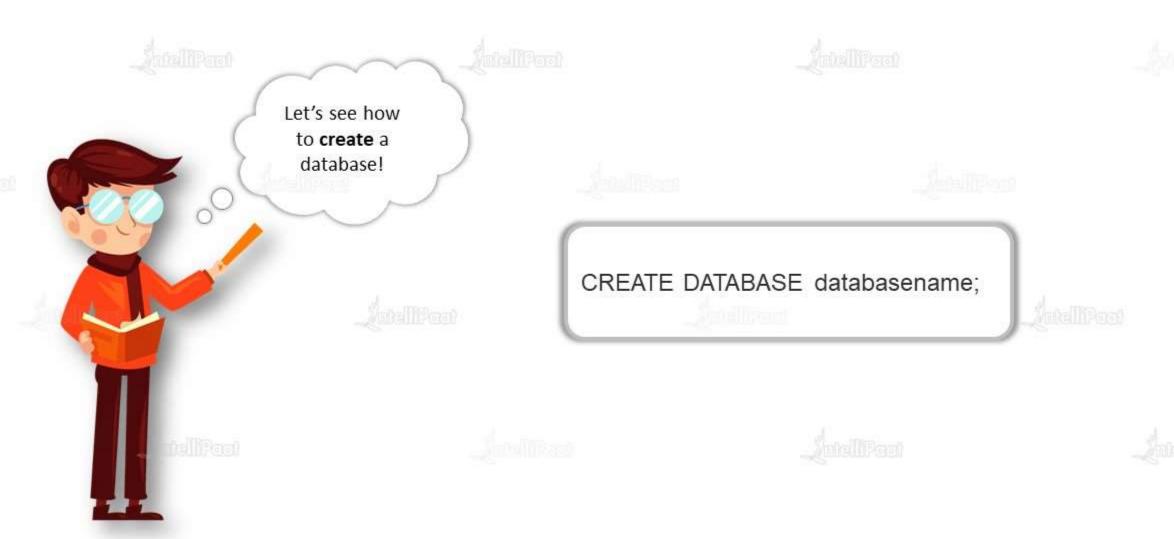






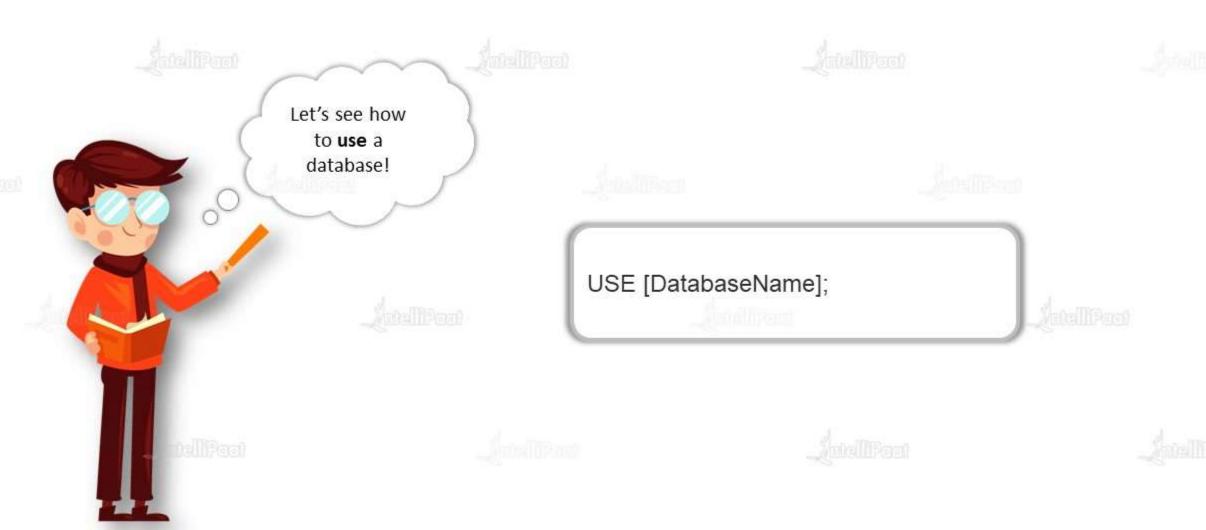
Creating a Database: Syntax





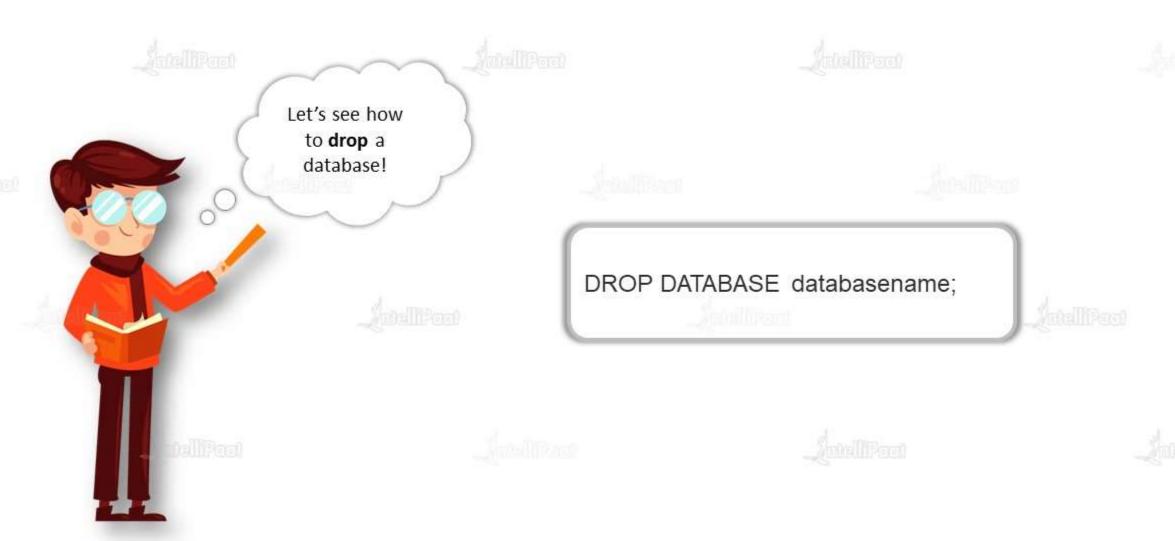
Using a Database: Syntax





Dropping a Database: Syntax





Data Types in SQL



Data types define what type of data a column can hold.







Different Data Types in SQL

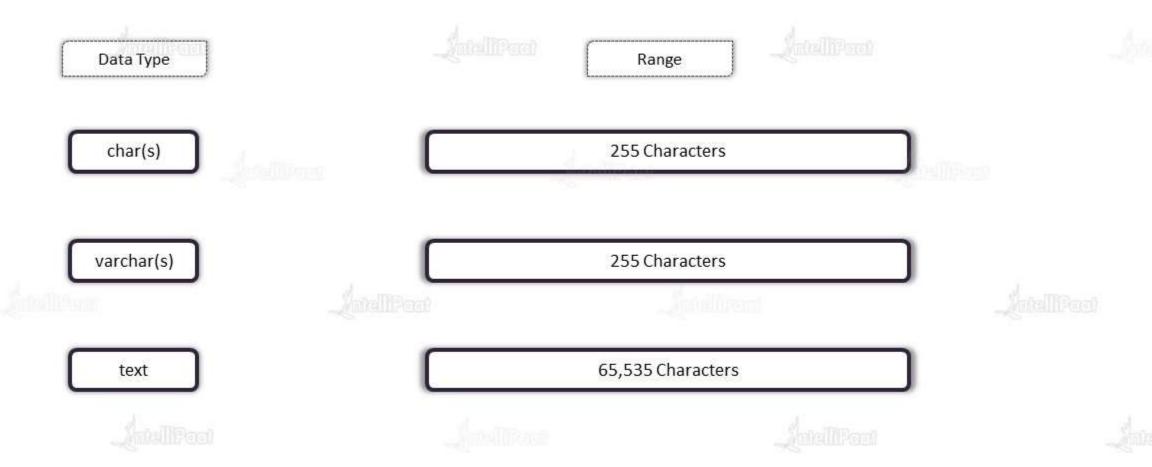
Numerical Data Types



Data Type		Range	
bigint	-92	223372036854775808 <-> 92233720368547	775808
int		-2147483648 <-> 2147483647	
smallint	_Varial life of	-32768 <-> -32767	
tinyint		0 <-> 255	
decimal(s,d)		-10^38 + 1 <-> 10^38 - 1	

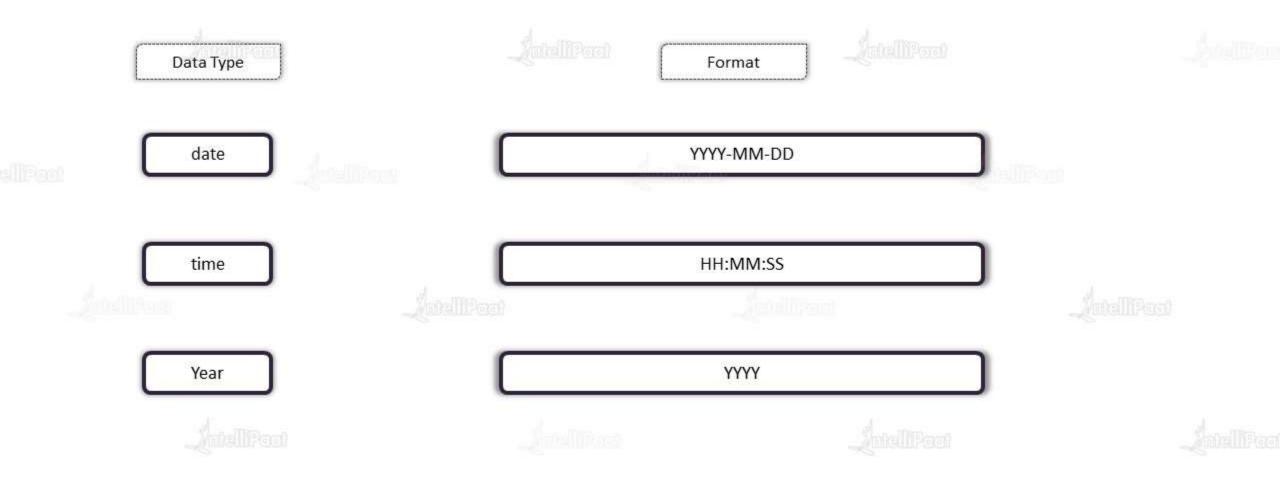
Character Data Types





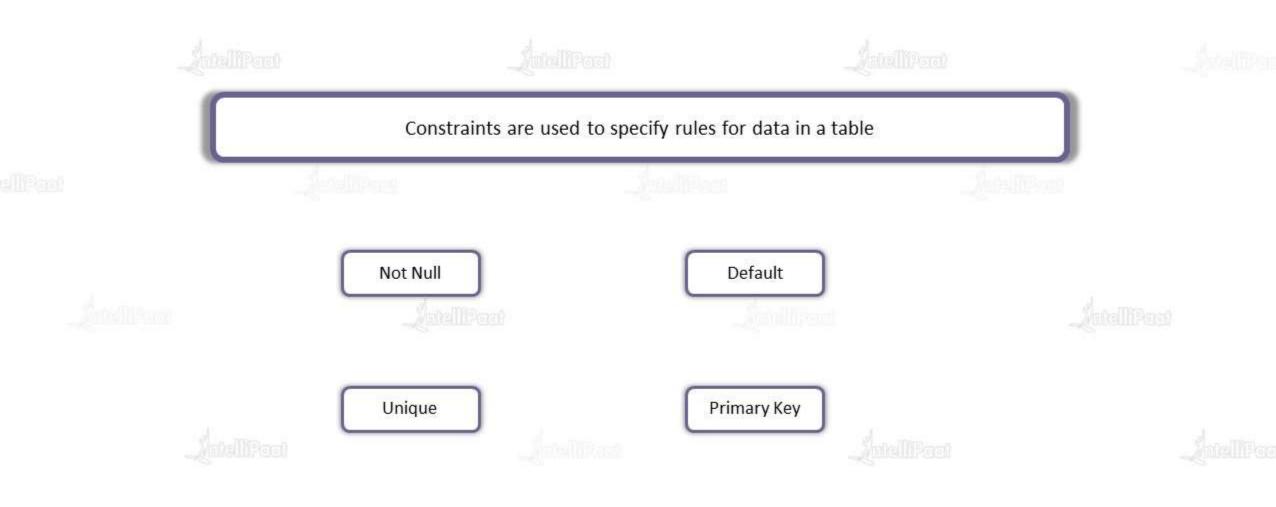
Date and Time Data Types





Constraints in SQL

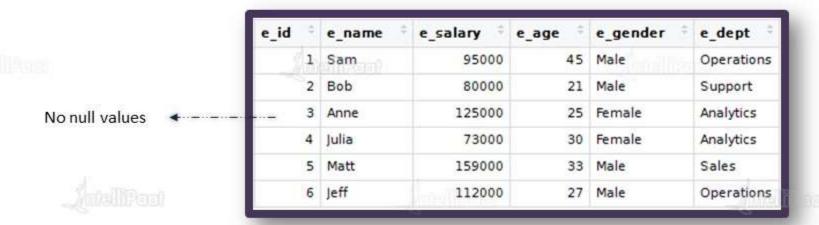




Not Null Constraint



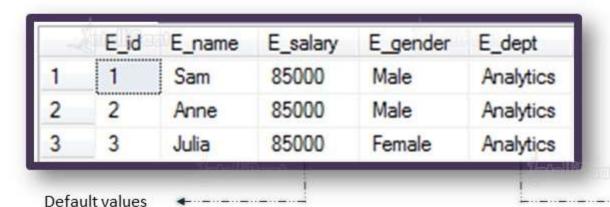
Not Null constraint ensures that a column cannot have a Null value



Default Constraint



Default constraint sets a default value for a column when no value is specified



Jacollina

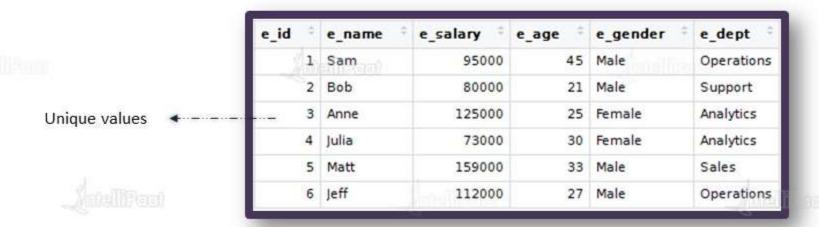
Default values

Unique Constraint





Unique constraint ensures that all values in a column are different



Primary Key Constraint





e_id e salary e gender e_dept e_name e_age 1 Sam 95000 45 Male Operations 2 Bob 80000 Male Support Analytics Anne 125000 Female Primary Key Analytics 4 Julia 73000 30 Female 5 Matt 159000 33 Male Sales 6 Jeff Operations 112000 27 Male

Foreign Key Constraint



- The FOREIGN KEY constraint is used to prevent actions that would destroy links between tables.
- The FOREIGN KEY constraint also prevents invalid data from being inserted into the foreign key column, because it has to be one of the values contained in the table it points to.

P_ld	LastName	FirstName	Address	City
1	Hansen	Ola	Timoteivn 10	Sandnes
2	Svendson	Tove	Borgvn 23	Sandnes
3	Pettersen	Kari	Storgt 20	Stavanger

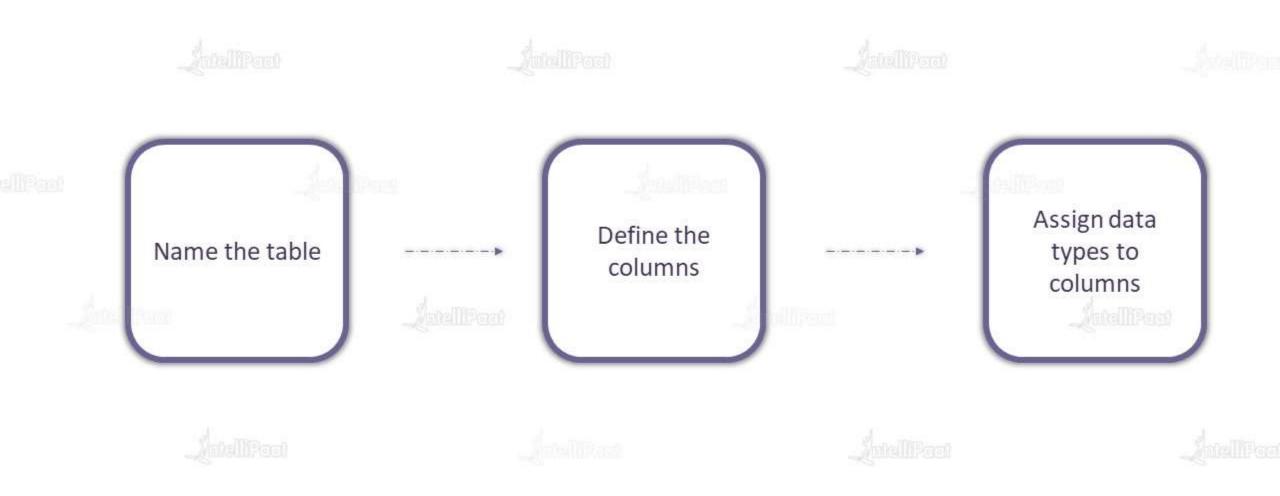
O_ld	Order No	P_ld
1	77895	3
2	44678	3
3	22456	2
4	24562	1

CREATE TABLE Orders (O_Id int NOT NULL PRIMARY KEY, OrderNo int NOT NULL, P_Id int FOREIGN KEY REFERENCES Persons(P_Id))

Create Table







Create Table Statement: Syntax





CREATE TABLE table_name(
column1 datatype,
column2 datatype,
column3 datatype,
....
columnN datatype,
PRIMARY KEY(column_x));

Select Statement: Syntax





SELECT column1, column2, columnN FROM table_name;

Select Distinct: Syntax





SELECT DISTINCT column1, column2, columnN FROM table_name;

Where Clause



Where clause is used to extract records which satisfy a condition.





Where Clause: Syntax



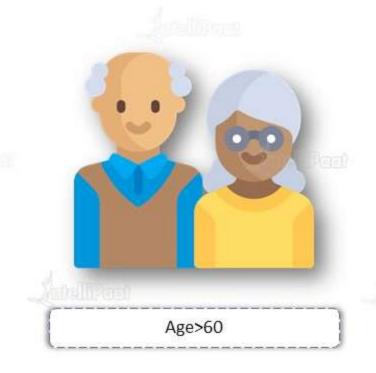


SELECT column1, column2, columnN FROM table_name WHERE [condition]

AND Operator



AND operator displays records if all the conditions separated by AND are TRUE.







AND Operator: Syntax





SELECT column1, column2, columnN FROM table_name WHERE [condition1] AND [condition2]...AND [conditionN];

OR Operator



OR operator displays records if any of the conditions separated by OR is TRUE.







OR Operator: Syntax





SELECT column1, column2, columnN FROM table_name WHERE [condition1] OR [condition2]...OR [conditionN];

NOT Operator



NOT operator displays a record if the condition is NOT TRUE.







NOT Operator: Syntax





SELECT column1, column2, columnN FROM table_name WHERE NOT [condition];

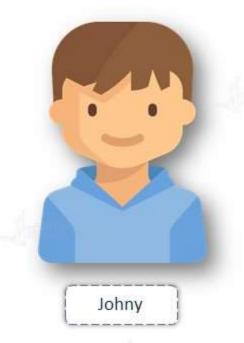
LIKE Operator



LIKE Operator is used to extract records where a particular pattern is present.

John

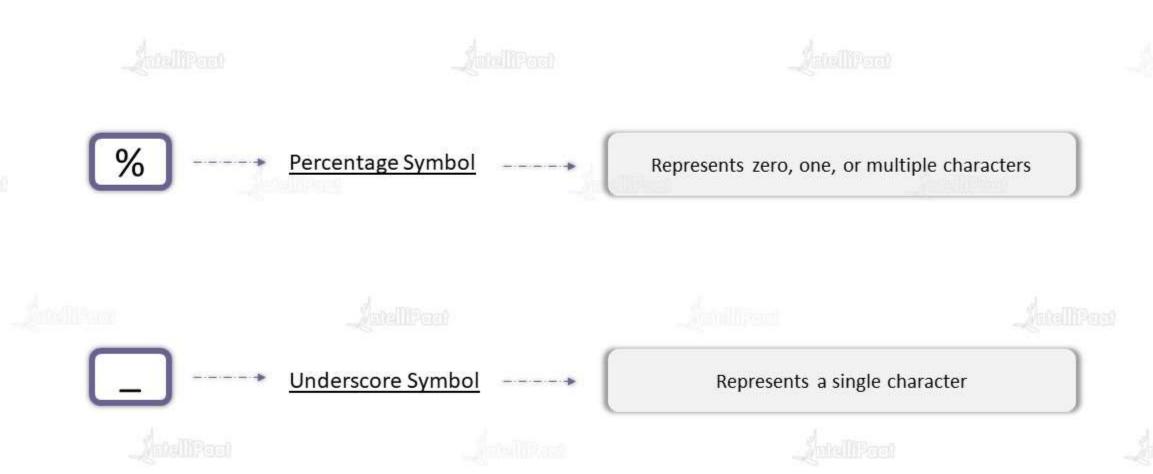






Wild Card Characters





LIKE Operator: Syntax



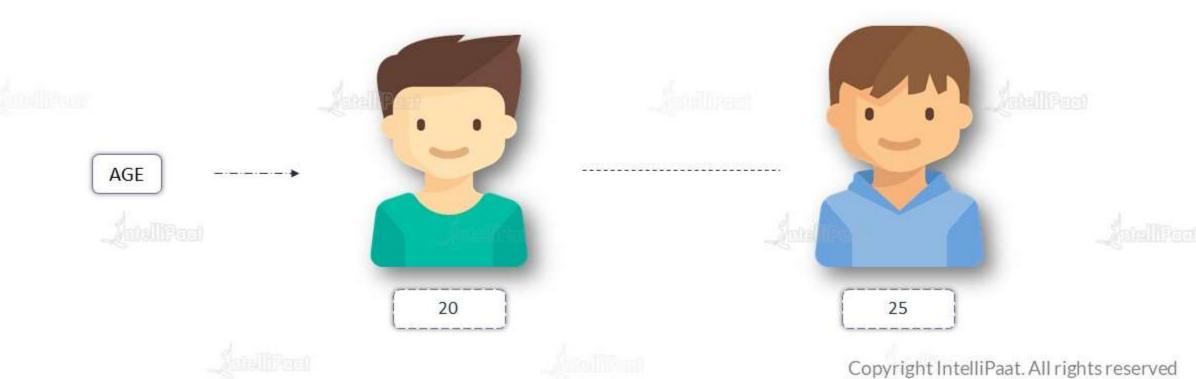


SELECT col_list FROM table_name WHERE column_N LIKE '_XXXXX%';

BETWEEN Operator



BETWEEN Operator is used to select values within a given range.



BETWEEN Operator: Syntax



ntelli?cot



SELECT col_list FROM table_name WHERE column_N BETWEEN val1 AND val2;











Which of these is the syntax to create a database with the name 'Sparta'

A Create Sparta

B Create Database Sparta

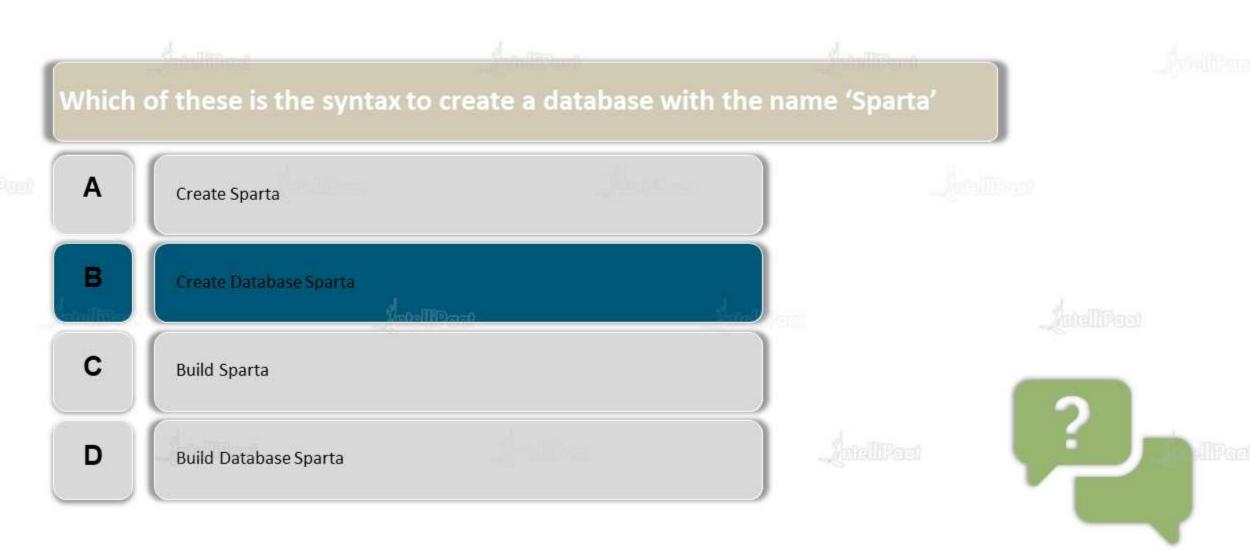
C Build Sparta

D Build Database Sparta

?



























What is the purpose of 'WHERE' clause in Mysql?

A Filtering out unwanted rows from result set

B Filtering out unwanted columns from result set

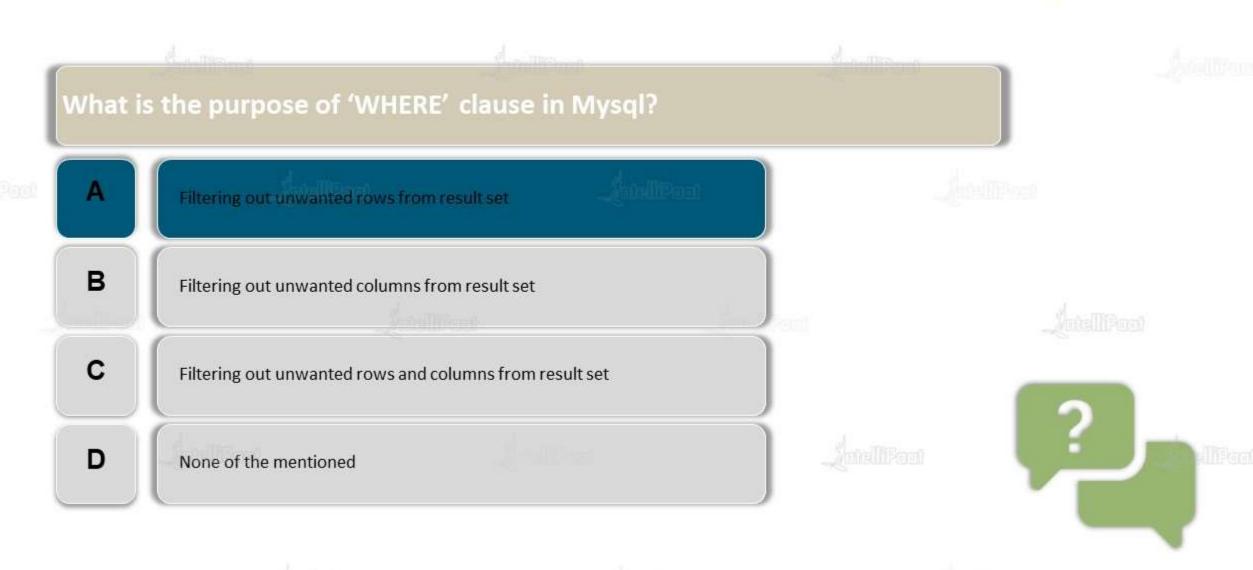
C Filtering out unwanted rows and columns from result set

D None of the mentioned

?









D





Which of these is the syntax to select all customers whose name starts with 'Sa%'

A SELECT * FROM Customers WHERE name IN'Sa%';

B SELECT * FROM Customers WHERE name LIKE 'Sa%';

SELECT FROM Customers WHERE name IS 'Sa%';

SELECT * FROM Customers WHERE name IS IN 'Sa%'; _NutelliPrest





В

D



Which of these is the syntax to select all customers whose name starts with 'Sa%'

A SELECT * FROM Customers WHERE name IN 'Sa%';

SELECT * FROM Customers
WHERE name LIKE 'Sa%';

C SELECT FROM Customers WHERE name IS 'Sa%';

SELECT * FROM Customers WHERE name IS IN 'Sa%'; ?





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