

# Data Definition Language (DDL), View And Coding Conventions

Author: TrungDVQ (Fsoft-Academy)



## Lesson Objectives



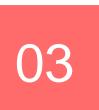
#### Introduction SQL

- √ What is SQL
- ✓ SQL process
- ✓ SQL components
- ✓ SQL data type
- ✓ SQL Operations



#### Data Definition Language

- ✓ Database
- ✓ Table
- ✓ Views



#### Coding Convention

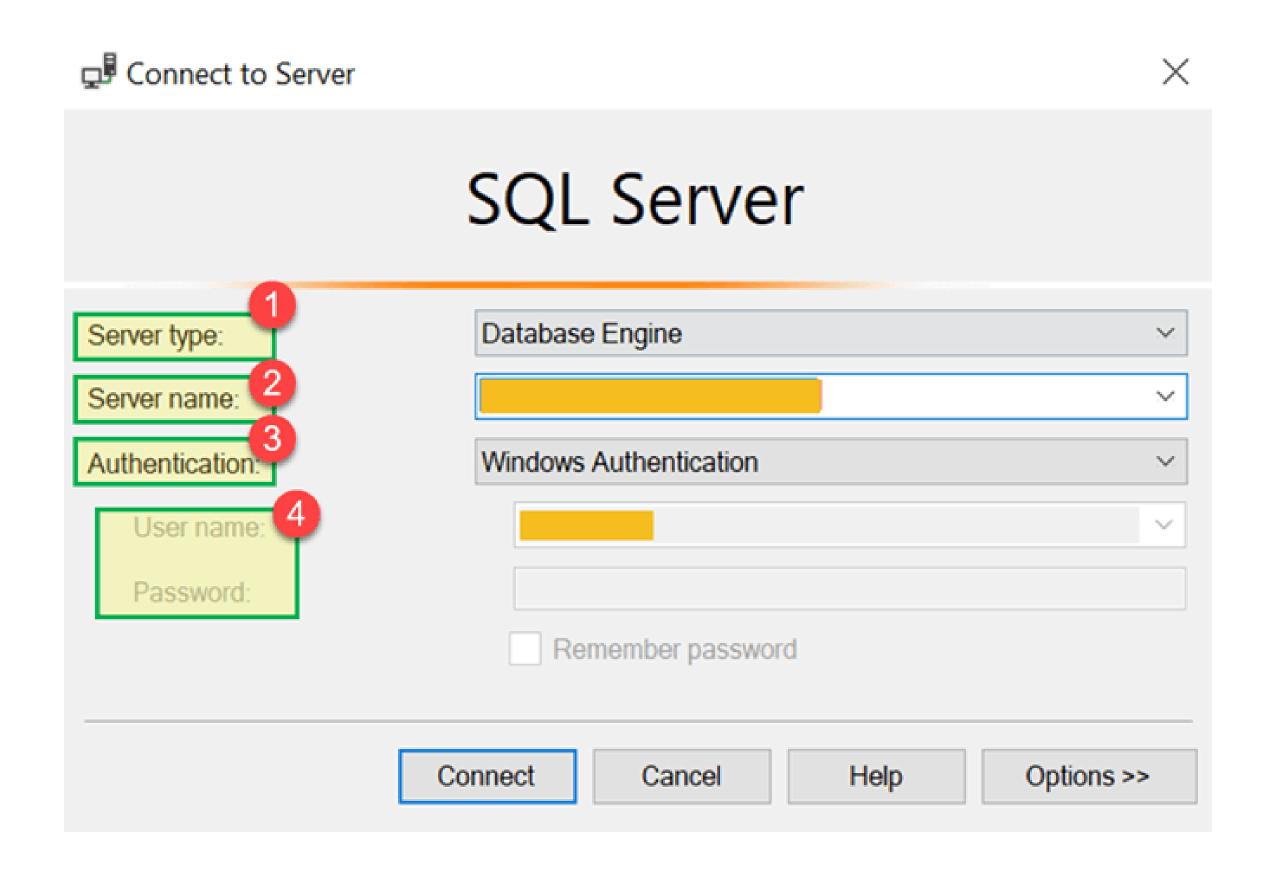
- ✓ Naming convention
- √ Styles



Hold on!
things
will



### How to use MS SQL





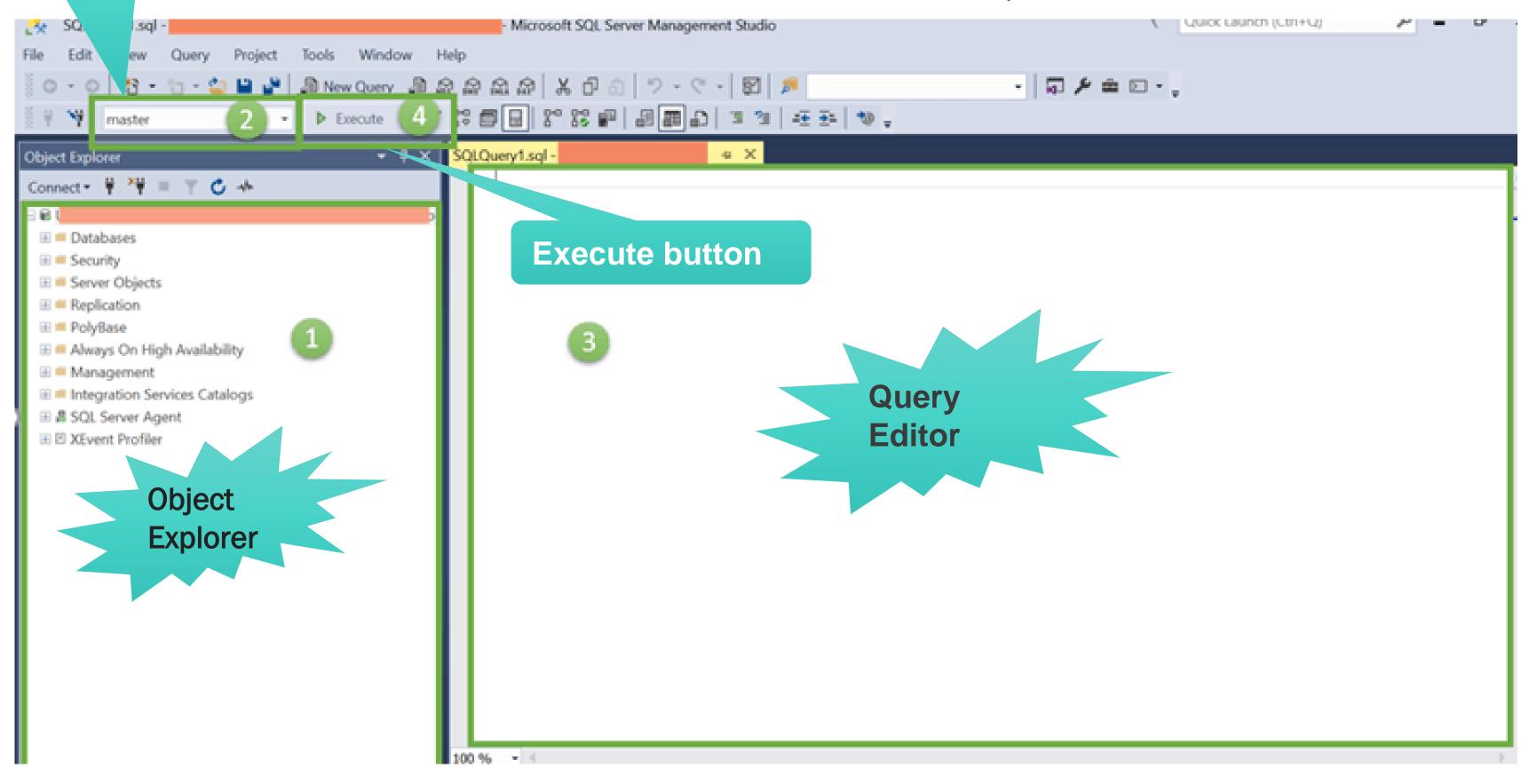
#### How to use MS SQL

- 1. Server type: This is an option to select one out of four available MS SQL services option. We will be working on 'Database Engine' for creating and working with Database. Other Server type includes Analysis, Reporting & Integration Services.
- 2. **Server name:** This is Server's name where MS SQL Server is installed and need to establish the connection with that server. Generally, we use the server name as "Machine name\Instance." Here Instance is the name given to SQL Server instance while SQL server installation.
- **3. Authentication:** This is defaulted to "Windows Authentication" if we use "Windows Authentication" during SQL Server Installation. Else, if we select 'Mixed Mode (Windows Authentication & Windows Authentication)' then Authentication will be defaulted to "SQL Server Installation."
- **4. User name\Password:** If Authentication is selected other than "Windows Authentication" like "SQL server Installation" then these two fields will be required.





#### How to use MS SQL

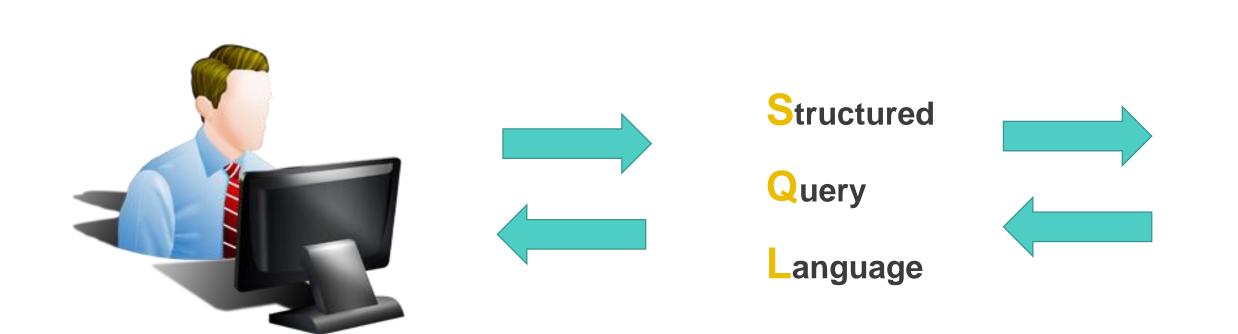


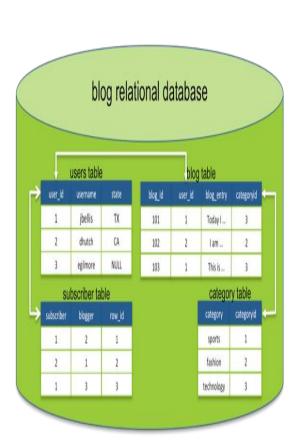


Introduction SQL



#### What is SQL?

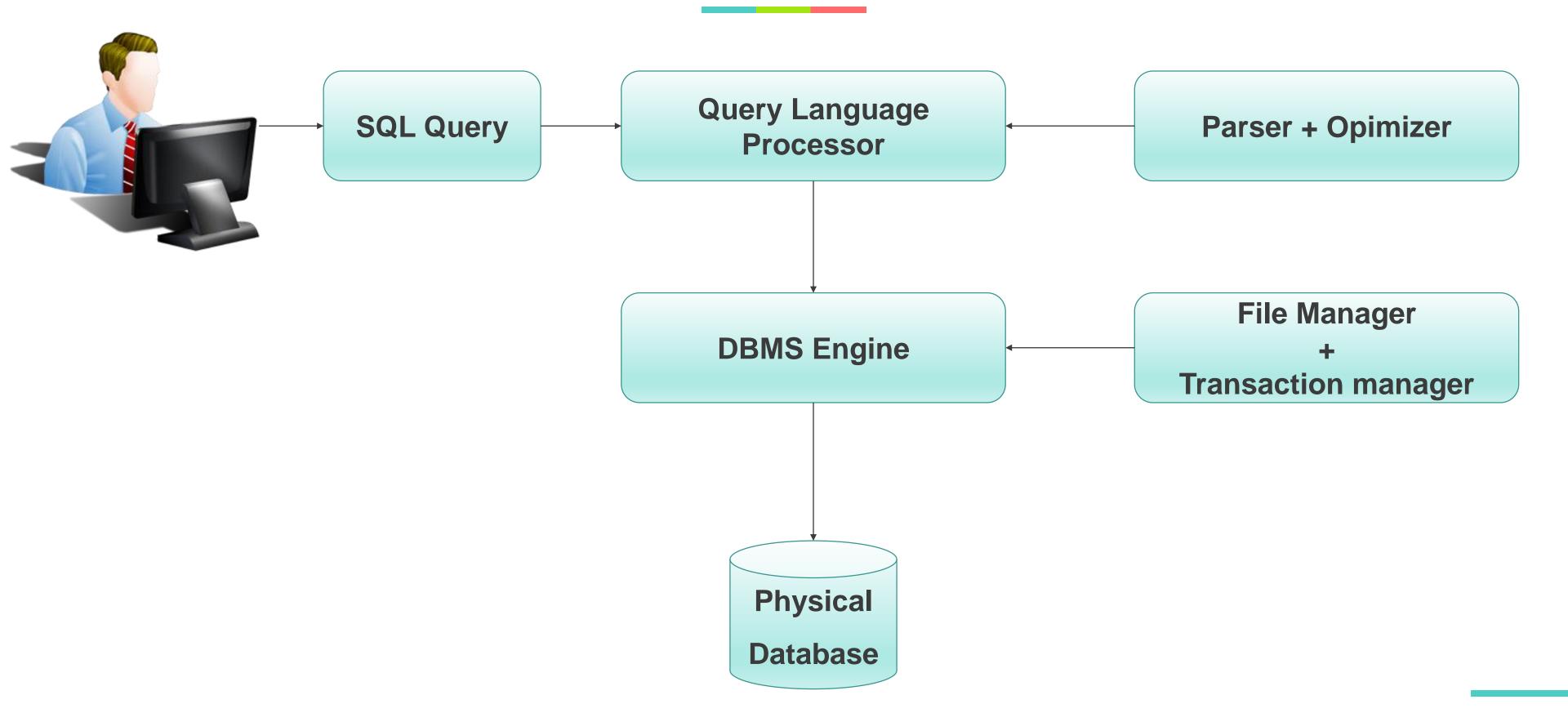




- > Which is a computer language for:
  - ✓ storing,
  - √ manipulating
  - ✓ retrieving data stored in relational database.
- > SQL is the standard language for Relation Database System, like MySQL, MS Access, Oracle, Sybase, Informix, PostgreSQL and SQL Server use SQL as standard database language.
- > SQL is an ANSI (American National Standards Institute) standard.



# SQL Process

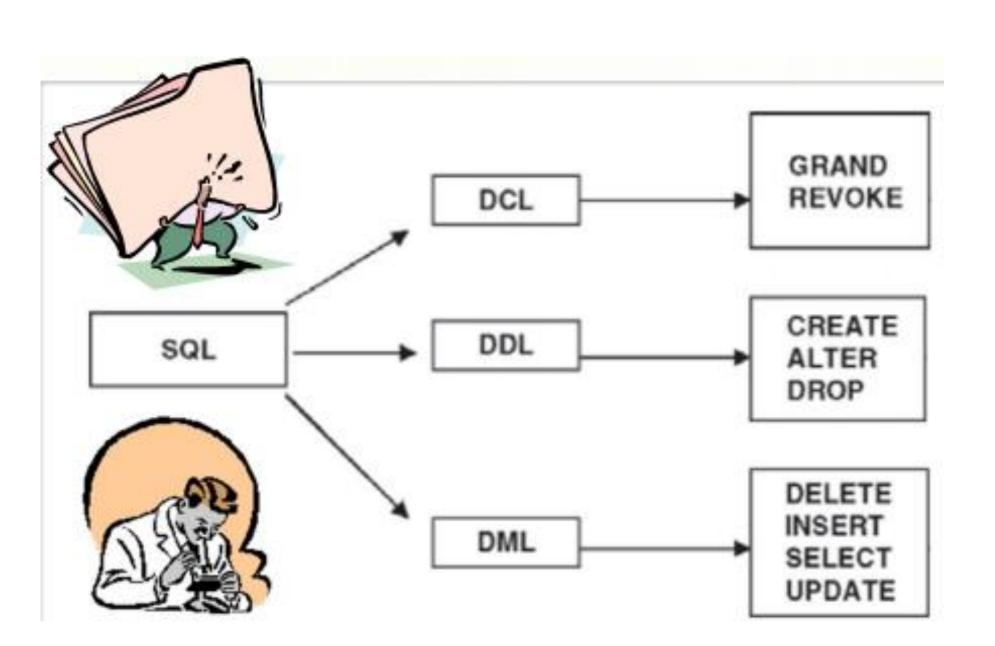




# The Components of SQL

#### SQL consists of three components:

- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Data Control Language (DCL)





# Ms SQL Server Data Types



#### Student:

- Name
- ✓ Birthday
- ✓ Gender
- Address
- / Marks...







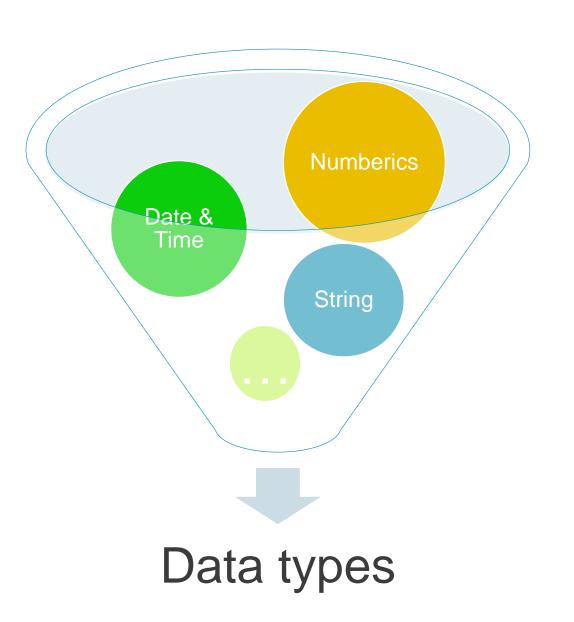
What type of data each of field ???.....



## Ms SQL Server Data Types

# SQL Server supports below data types. NULL is default value for most data type:

- **✓** Exact Numerics
- ✓ Approximate Numerics
- ✓ Date and Time
- ✓ Character Strings
- ✓ Unicode Character Strings
- √ Binary Strings
- ✓ Other Data Types





## **Exact Numbers**

#### Interger-based data type

Data type	Size	Range of values
Bigint	8 Bytes	-2^63 to 2^63-1
Int	4 Bytes	-2^31 to 2^31-1
Smallint	2 Bytes	-2^15 to 2^15 - 1
Tinyint	1 Byte	0 to 255
Bit	1 Bit	0 to 1





## **Exact Numbers**

#### Exact decimal-based data type

Data type	Size	Range of values	
Decimal(p,s)	5 - 17 Bytes (depending on precision)	<ul><li>Varies based on precision setting.</li><li>Maximum values are -10^38 +1 through 10^38 -1</li></ul>	
(p is the maximum number of all digits (both sides of the decimal point), s is the maximum number of digits after the decimal point)			

Numeric(p,s)	•••	Identical to <i>Decimal type</i>	
Smallmoney	4 Bytes	- 214,748.3648 to 214,748.3647	
		- 922,337,203,685,477.5808	
Money	8 Bytes	То	
		922,337,203,685,477.5807	15



Data type	Size	Range of values
Float	8 Bytes	- 1.79E+308 to 1.79E+308
	Depends on the value of n	
	If 1 ≤ n ≤ 24: 4 Bytes	4 Bytes: - 3.40E + 38 to 3.40E + 38
Float(n)	(Precision: 7 digits)	
	If 25 ≤ n ≤ 53: 8 Bytes	8 Bytes: - 1.79E+308 to 1.79E+308
	(Precision: 15 digits)	
Real	•••	- 3.40E + 38 to 3.40E + 38

**Note:** SQL Server treats n as one of two possible values.

✓ If 1<=n<=24, n is treated as 24.

✓ f **25**<=n<=**53**, n is treated as **53**.



# **Date and Time**

Data Type	Description	Example
Date	Stores dates between January 1, 0001, and December 31, 9999	2008-01-15
Datetime	Stores dates and times between January 1, 1753, and December 31, 9999, with an accuracy of 3.33 milliseconds	2008-01-15 09:42:16.142
Datetime2	Stores date and times between January 1, 0001, and December 31, 9999, with an accuracy of 100 nanoseconds	
Datetimeoffset	Similar to the datetime2 data type, but also expects an offset designation of –14:00 to +14:00	2008-01-15 09:42:16.1420221 +05:00
Smalldatetime	Stores dates and times between January 1, 1900, and June 6, 2079, with an accuracy of 1 minute	2008-01-15 09:42:00
Time	Stores times with an accuracy of 100 nanoseconds	09:42:16.1420221



# Character Strings

#### Non-Unicode string data types:

Data type	Description
Char(n)	- Fixed-length
	- Maximum length of 8,000 characters (1 ≤ n ≤ 8000)
\/avabar/m\	- Variable-length
Varchar(n)	- Maximum of 8,000 characters (1 ≤ n ≤ 8000)
\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- Variable-length
Varchar(max)	- Maximum length of 2,147,483,647 characters
	- Variable-length
Text	- Maximum length of 2,147,483,647 characters
	- Use varchar(max) instead



# **Unicode Character Strings**

Unicode string data types are "double width":

Data type	Description	
Nchar(n)	<ul> <li>Fixed-length</li> <li>Maximum specified length is 4,000 characters (1≤ n ≤ 4000)</li> </ul>	
Nvarchar(n)	<ul> <li>Variable-length</li> <li>Maximum specified length is 4,000 characters (1≤ n ≤ 4000)</li> </ul>	
Nvarchar(max)	<ul><li>Variable-length</li><li>Maximum length of 1,073,741,823 characters</li></ul>	
Ntext	<ul><li>- Variable-length</li><li>- Maximum length of 1,073,741,823 characters</li></ul>	



# **Binary Strings**

Data type	Description	
Binary	<ul><li>- Fixed-length binary data</li><li>- Maximum length of 8,000 bytes</li></ul>	
Varbinary	<ul><li>Variable length binary data</li><li>Maximum length of 8,000 bytes.</li></ul>	
Image	<ul> <li>Variable length binary data</li> <li>Maximum length of 2,147,483,647 bytes.</li> </ul>	

# **Other Data Types**



Data Type	Description		
Timestamp	Stores a database-wide unique number that gets updated every time a row gets updated		
Hierarchyid	Special data type that maintains hierarchy positioning information		
Uniqueidentifier	Stores a database-wide unique number that gets updated every time a row gets updated		
Sql_variant	Stores values of various SQL Server-supported data types, except text, ntext, and timestamp		
XmI	Stores XML data. You can store xml instances in a column or a variable (SQL Server 2005 only).		
Table	Stores a result set for later processing		



# SQL Operators



## What is an Operator in SQL?

- An operator is a reserved word or a character used primarily in an SQL statement's WHERE clause to perform operation(s), such as comparisons and arithmetic operations.
- > Operators are used to specify conditions in an SQL statement and to serve as conjunctions for multiple conditions in a statement. Some types of most operators:
  - 1 Arithmetic operators
  - Comparison operators
  - 3 Logical operators.



## **SQL Arithmetic Operators**

Here is a list of the Arithmetic operators available in SQL

Operato r	Description		Example
+	Addition	a + b	<b>→</b> 30
_	Subtraction	a - b	<b>→</b> -10
*	Multiplication	a * b	→ 200
	Division	b/a	<b>→</b> 2
%	Modulus	b % a	<b>→</b> 0

(Assume variable a holds 10 and variable b holds 20)



# **SQL Comparison Operators**

Here is a list of all the Comparison operators available in SQL

Operator	Description	Operator	Description
=	equal to	>=	greater than or equal to
!=, <>	not equal to	<=	less than or equal to
<	less than	!<	not less than
>	greater than	!>	not greater than

#### Example

**CUSTOMERS TABLE** 

ID	NAME	AGE	ADDRESS	SALARY
1 1 2 1 3 1 4 1 5 1 6 1 7	Ramesh   Khilan   kaushik   Chaitali   Hardik   Komal   Muffy	32 25 23 25 25 27 27 22 24	Ahmedabad Delhi Kota Mumbai Bhopal MP Indore	2000.00   1500.00   2000.00   6500.00   8500.00   4500.00   10000.00

**SQL:** SELECT \* FROM CUSTOMERS WHERE SALARY > 5000;



+-	ID	+-	NAME	+-	AGE	   	ADDRESS	+ ·    -	SALARY
-  -  -  -	4 5 7	      -	Chaitali Hardik Muffy	  -  -	25 27 24	i	Mumbai Bhopal Indore	       	6500.00   8500.00   10000.00



# **SQL Logical Operators**

Operator	Description
ALL	Used to compare a value to all values in another value set.
AND	Used when both conditions are included
ANY	Used to compare a value to any applicable value in the list according to the condition
BETWEEN	Used to limit the values in a range e.g.
EXISTS	Used to search for the presence of a row in a specified table that meets certain criteria



# **SQL Logical Operators**

Operator	Description	
IN	• Included in the list e.g.	
LIKE	Equal to some character (use quotes)	
NOT	Opposite of the logical value	
OR	Used when either of the condition is true	
IS NULL	This checks if the field has a null	
UNIQUE	Searches every row of a specified table for uniqueness	



Data Definition Language (DDL)

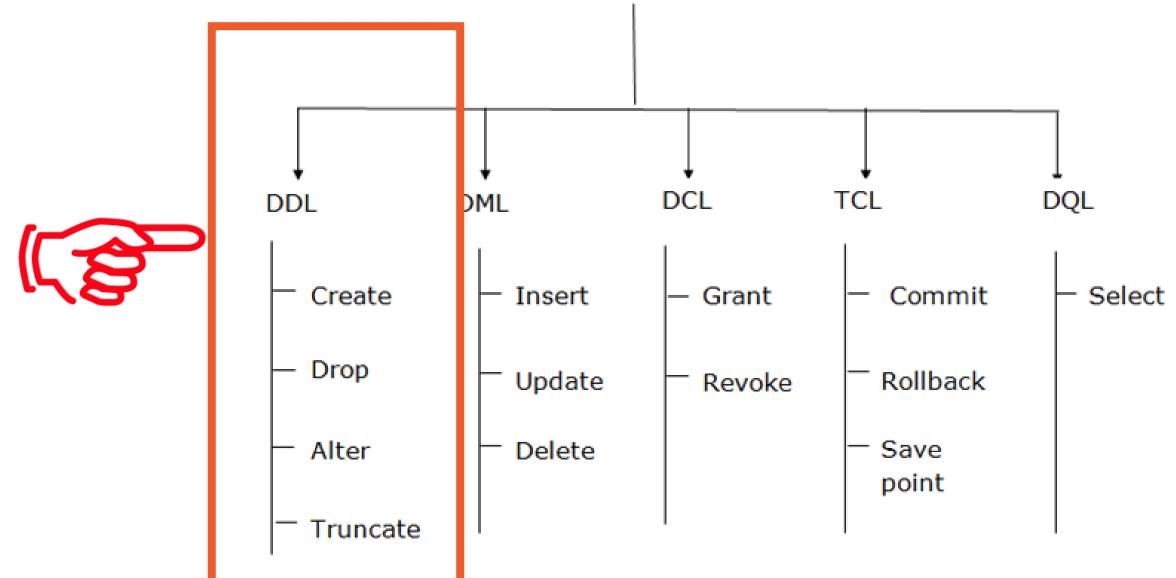


## Introduction to DDL Statements

DDL stands for Data Definition Language

Define data structures in SQL Server as creating, altering, and dropping

tables and establishing constraints... sol Command



## Database



# DATABASE

CREATE

**ALTER** 

DROP

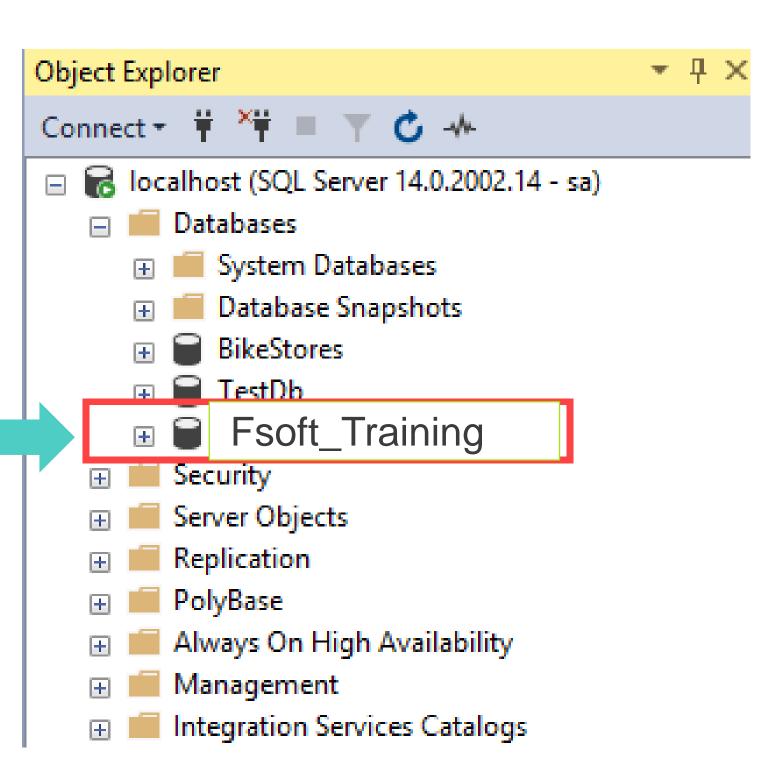




# CREATE

CREATE DATABASE <Database\_Name>

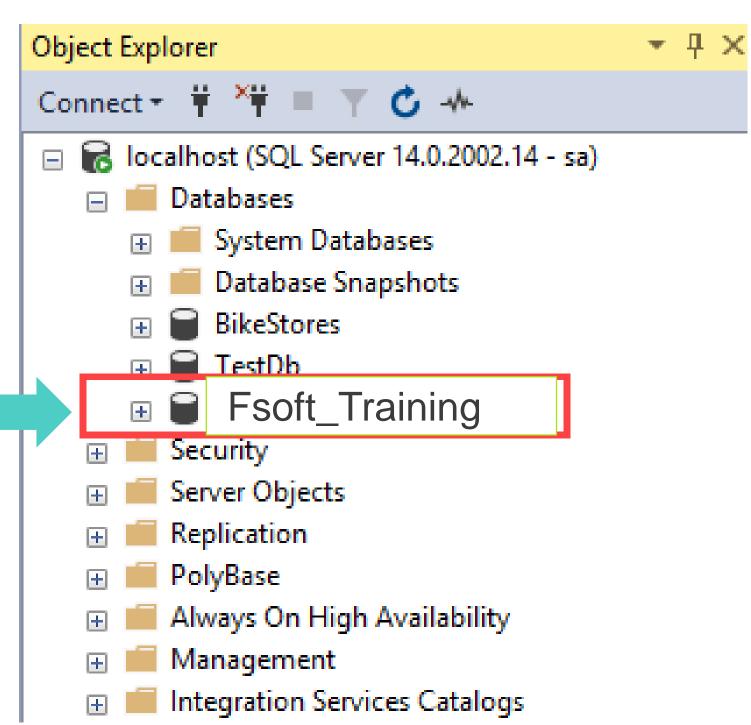
CREATE DATABASE Fsoft\_training





# CREATE

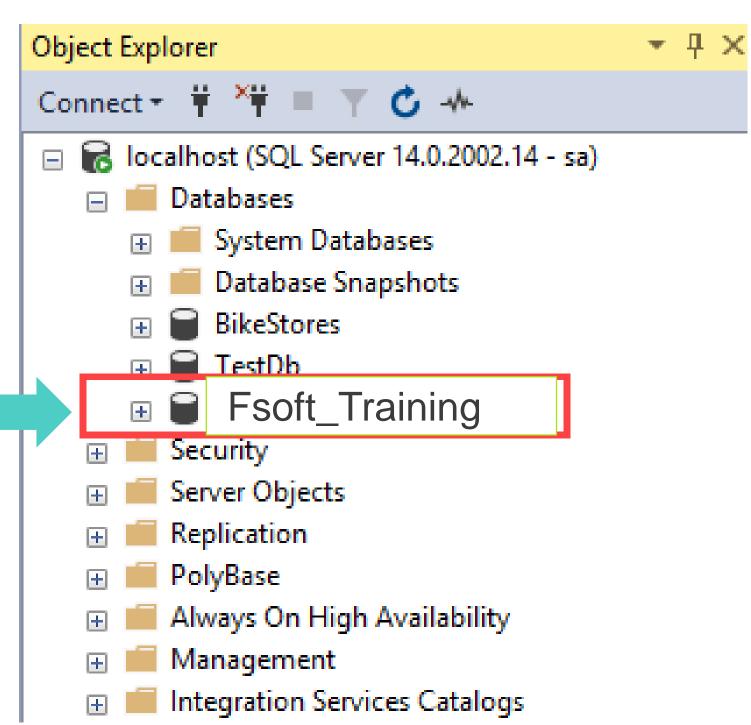
```
CREATE DATABASE Fsoft_Training
ON PRIMARY
  NAME = N'Fsoft_Training
   FILENAME = N'C:\Program Files\Microsoft SQL Server\MS
SQL14.SQL2017\MSSQL\DATA\Fsoft Training.mdf',
   SIZE = 1024MB,
   FILEGROWTH = 256MB
LOG ON
  NAME = N' Fsoft Training log'
   FILENAME = N'C:\Program Files\Microsoft SQL Server\MS
SQL14.SQL2017\MSSQL\DATA\Fsoft_Training_log.ldf',
   SIZE = 512MB,
   FILEGROWTH = 125MB)
```





# CREATE

```
CREATE DATABASE Fsoft_Training
ON PRIMARY
  NAME = N'Fsoft_Training
   FILENAME = N'C:\Program Files\Microsoft SQL Server\MS
SQL14.SQL2017\MSSQL\DATA\Fsoft Training.mdf',
   SIZE = 1024MB,
   FILEGROWTH = 256MB
LOG ON
  NAME = N' Fsoft Training log'
   FILENAME = N'C:\Program Files\Microsoft SQL Server\MS
SQL14.SQL2017\MSSQL\DATA\Fsoft_Training_log.ldf',
   SIZE = 512MB,
   FILEGROWTH = 125MB)
```







ALTER DATABASE <OLD\_NAME> MODIFY NAME = <NEW\_NAME> ;



ALTER DATABASE Fsoft\_training MODIFY NAME = Fsoft\_training\_new;





https://docs.microsoft.com/en-us/sql/t-sql/statements/alter-database-transact-sql?view=sql-server-ver15#syntax



# DROP

DROP DATABASE database\_name



DROP DATABASE 'Fsoft\_Training'



Check database exist in Server?



# Tip 1

### Lists all databases in the SQL Server:





name

FROM

master.sys.databases

ORDER BY

name;



# Tip 2

```
-- Delete Database if this exists
IF EXISTS (SELECT * FROM sys.databases WHERE Name LIKE 'Fsoft_Training')
DROP DATABASE Fsoft_Training
GO
-- Create Database by using statement
```

CREATE DATABASE Fsoft\_Training

### GO

-- Use this database on query
USE Fsoft\_Training

GO



# SQL Naming convention

### The first character must be one of the following:

- ➤ A letter as defined by the Unicode Standard 3.2. The Unicode definition of letters includes Latin characters from a through z, from A through Z, and also letter characters from other languages.
- ➤ The underscore (\_), at sign (@), or number sign (#).
- Some Transact-SQL functions have names that start with double at signs (@@). To avoid confusion with these functions, you should not use names that start with @@.



# SQL Naming convention

### Subsequent characters can include the following:

- > Letters as defined in the Unicode Standard 3.2.
- > Decimal numbers from either Basic Latin or other national scripts.
- > The at sign, dollar sign (\$), number sign, or underscore.

The identifier must **not be** a Transact-SQL reserved word. SQL Server reserves both the **uppercase** and **lowercase** versions of reserved words.

Embedded spaces or special characters are not allowed.

# Table, PK, FK and Constraints

### **TABLE**



# Table is a repository for data, with items of data grouped in one or more columns

- Data types
- > Constraints
- > Index

	EmployeeID	NationalIDNumber	ManagerID	Title	BirthDate	Marital Status	Gender	HireDate
1	1	14417807	16	Production Technician - WC60	1972-05-15 00:00:00.000	M	M	1996-07-31 00:00:00.000
2	2	253022876	6	Marketing Assistant	1977-06-03 00:00:00.000	S	M	1997-02-26 00:00:00.000
3	3	509647174	12	Engineering Manager	1964-12-13 00:00:00.000	M	M	1997-12-12 00:00:00.000
4	4	112457891	3	Senior Tool Designer	1965-01-23 00:00:00.000	S	М	1998-01-05 00:00:00.000
5	5	480168528	263	Tool Designer	1949-08-29 00:00:00.000	M	M	1998-01-11 00:00:00.000
6	6	24756624	109	Marketing Manager	1965-04-19 00:00:00.000	S	M	1998-01-20 00:00:00.000
7	7	309738752	21	Production Supervisor - WC60	1946-02-16 00:00:00.000	S	F	1998-01-26 00:00:00.000
8	8	690627818	185	Production Technician - WC10	1946-07-06 00:00:00.000	M	F	1998-02-06 00:00:00.000
9	9	695256908	3	Design Engineer	1942-10-29 00:00:00.000	M	F	1998-02-06 00:00:00.000

### CREATE



```
CREATE TABLE <table_name> (
    column1    data_type[(size)],
    column2    data_type[(size)],
...);
```

```
-- Create table
CREATE TABLE Employee(
    EmployeeID
                         int,
    FirstName
                         nvarchar(100),
                         nvarchar(100),
    LastName
    AddressDetail
                         varchar(100),
                         nvarchar(50),
    City
    BirthDate
                         nvarchar(10),
    IsDeletedFlag
                         bit
```

### **Table Constraints**



Table Constraints: Are used to limit the type of data that can go into a table.

We will focus on the following constraints:

- •NOT NULL
- •CHECK
- •UNIQUE
- •PRIMARY KEY
- DEFAULT
- •FOREIGN KEY

### **Table Constraints**



### SQL constraints can be applied at:

#### Table level

- ✓ Are declared independently from the column definition
- ✓ declare table-level constraints at the end of the CREATE TABLE statement

#### •Column level:

- ✓ Are declared when define columns for the table.
- ✓ It is applied particularly to the column where it attached to

### Table Constraints



#### Column level

```
CREATE TABLE table_name (
        column1 datatype constraint,
        column2 datatype constraint,
        column3 datatype constraint,
        ....
);
```

#### Table level

```
CREATE TABLE table_name (
    column1 datatype ,
    column2 datatype ,
    column3 datatype ,
    ....

CONSTRAINT <Name> CHECK( constraint)
    CONSTRAINT <PK_Name> PRIMARY KEY (column1, ,Column2));
```

# Primary key?





A primary key is a combination of fields which uniquely specify a row.

This is a special kind of unique key, and it has implicit NOT NULL constraint. It means, Primary key values cannot be NULL.

# Foreign key





A foreign key is one table which can be related to the primary key of another table.

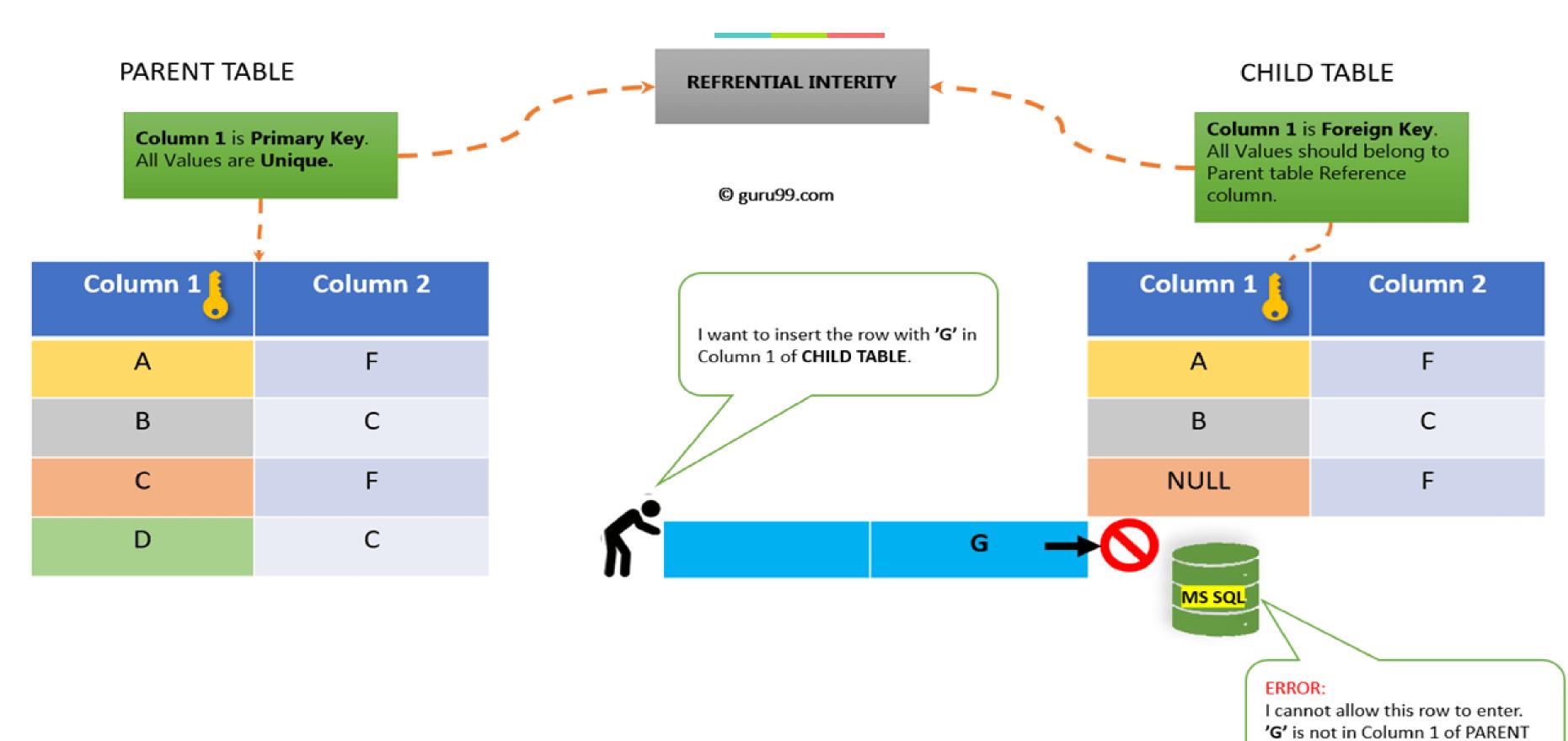
Relationship needs to be created between two tables by referencing foreign key with the primary key of another table.

A **FOREIGN KEY** provides a way of enforcing referential integrity within SQL Server. In simple words, foreign key **ensures** values in **one table** must be **present in another table**.

# Foreign key



TABLE.





## UNIQUE and PRIMARY KEY



UNIQUE: Enforce the uniqueness of the values in a set of columns

•Synstax:

CONSTRAINT unique\_name UNIQUE (col\_names)

PRIMARY KEY: Specify primary key of table.

•Syntax:

[CONSTRAINT PK\_Name]
PRIMARY KEY [col\_names]

# Table Constraint



	Column Name	Data Type	Allow Nulls
₽¥	ProductID	int	
	ProductName	nvarchar(50)	~
	Description	nvarchar(100)	~
	RetailPrice	float	~
	WholeSalePrice	nvarchar(100)	~

### Table Constraint



```
-- PRIMARY KEY Constraint
CREATE TABLE Product(
         ProductID int
,         ProductName nvarchar(50)
,         Description nvarchar(100)
,         RetailPrice float
,         WholeSalePrice nvarchar(100)
,         PRIMARY KEY(ProductID)
)
```

```
-- PRIMARY KEY Constraint
CREATE TABLE Product(
          ProductID int
,          ProductName nvarchar(50)
,          Description nvarchar(100)
,          RetailPrice float
,          WholeSalePrice nvarchar(100)
,          PRIMARY KEY(ProductID)
)
```

### FOREIGN KEY



FOREIGN KEY: Used to define relationships between tables in the database.

### •Syntax:

[CONSTRAINT FK\_Name]
FOREIGN KEY [(col\_names)]
REFERENCES reference\_table(col\_names)

DEFAULT: Defaults specify what values are used in a column if you do not specify a value for the column when you insert a row.

# FOREIGN KEY



endor *
Column Name Data Type Allow Nulls
▼ VendorID
VendorName nvarchar(50) ✓
Phone varchar(50)
Website varchar(50) ✓
ProductID int

### FOREIGN KEY



```
-- FOREIGN KEY constraint
CREATE TABLE Vendor(
    VendorID    int
,    VendorName    nvarchar(50)
,    Phone        varchar(50)
,    Website       varchar(50)
,    ProductID    int
,    PRIMARY KEY(VendorID)
,    FOREIGN KEY (ProductID) REFERENCES Product(ProductID)
)
```

### NOT NULL and CHECK



NOT NULL: Specifies that the column does not accept NULL values.

CHECK: Enforce domain integrity by limiting the values that can be put in a column.

### •Syntax:

[CONSTRAINT constraint\_name] CHECK (condition)

## NOT NULL and CHECK

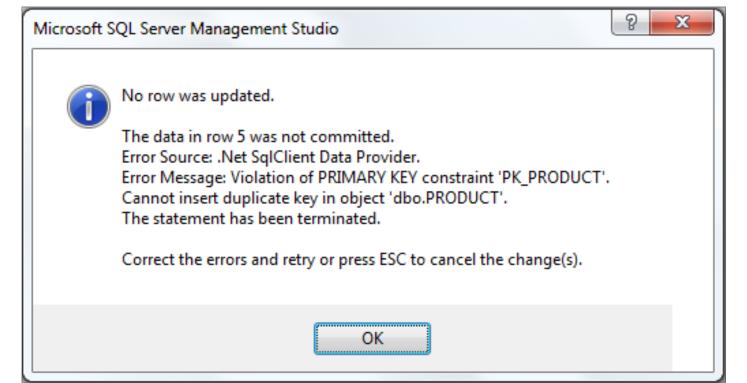


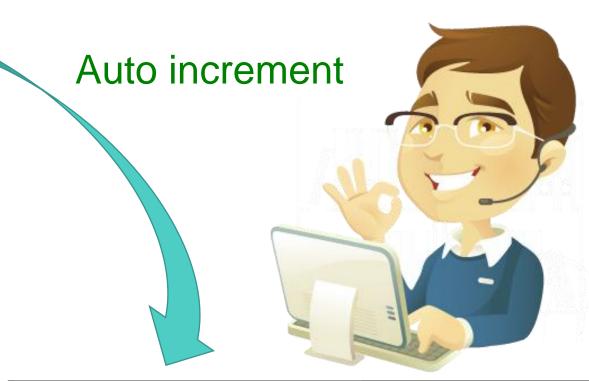
```
CREATE TABLE Timesheet(
    PayrollDate datetime
, WorkingHours int DEFAULT 8
, CONSTRAINT IsGreaterThan0 CHECK (WorkingHours>0)
)
```



	PRODUCT_ID	PWIDTH	PLENGTH	PRICE
	i	40	50	2000.0000
	2	45	55	2000.0000
	3	40	60	3000.0000
	4	50	55	2500.0000
.0	4 0	45 <b>0</b>	50 0	2100
*	NULL	NULL	NULL	NULL







	PRODUCT_ID	PWIDTH	PLENGTH	PRICE
	1	40	50	2000.0000
	2	45	55	2000.0000
	3	40	60	3000.0000
	4	50	55	2500.0000
	5	45	50	2100.0000
<b>)</b> *	NULL	NULL	NULL	NULL



### Identity has:

- A seed
- An increment

Seed is the initial value

Increment is the value by which we need to skip to fetch the next value

### For example:

•Identity(1,2) will generate sequence numbers 1,3,5,7...

1	
2	
3	
4	
5	

Identity(1,1)



```
CREATE TABLE Persons (
    Personid int IDENTITY(1,1) PRIMARY KEY,
    LastName varchar(255) NOT NULL,
    FirstName varchar(255),
    Age int
);
```



MySQL

```
CREATE TABLE Persons (
    Personid int NOT NULL AUTO_INCREMENT,
    LastName varchar(255) NOT NULL,
    FirstName varchar(255),
    Age int,
    PRIMARY KEY (Personid)
);
```

# Computed columns



```
CREATE TABLE persons
     person_id INT PRIMARY KEY IDENTITY,
     first_name NVARCHAR(100) NOT NULL,
     last name NVARCHAR(100) NOT NULL,
     dob
                DATE
                                          full_name = first_name + ' ' + last_name
                                          CREATE TABLE persons
                                              person id INT PRIMARY KEY IDENTITY,
                                              first name NVARCHAR(100) NOT NULL,
                                              last_name NVARCHAR(100) NOT NULL,
                                              full_name AS (first_name + ' ' + last_name),
ALTER TABLE persons
                                              dob
                                                         DATE
ADD full name
    AS (first_name + ' ' + last_name);
```

# **Drop table**



Sometimes, you want to remove a table that is no longer in use.

# DROP TABLE table\_name

### **ALTER table**



```
ALTER TABLE Persons
ADD PRIMARY KEY (ID);
```

ALTER TABLE Persons

ADD CONSTRAINT PK\_Person PRIMARY KEY (ID, LastName);

ALTER TABLE **Persons**ADD Name VARCHAR (255) NOT NULL

ALTER TABLE Persons
DROP COLUMN Name1, Name2;

ALTER TABLE sales.price\_lists
DROP CONSTRAINT ck\_positive\_price;

### **Truncate statement**



- Removes all rows in a table.
- > Table structure and its columns, constraints, indexes, ...remain.
  - Resets the identity value.
  - Releases the memory used.

# TRUNCATE TABLE table\_name;



# **VIEWS**

### What is a view?

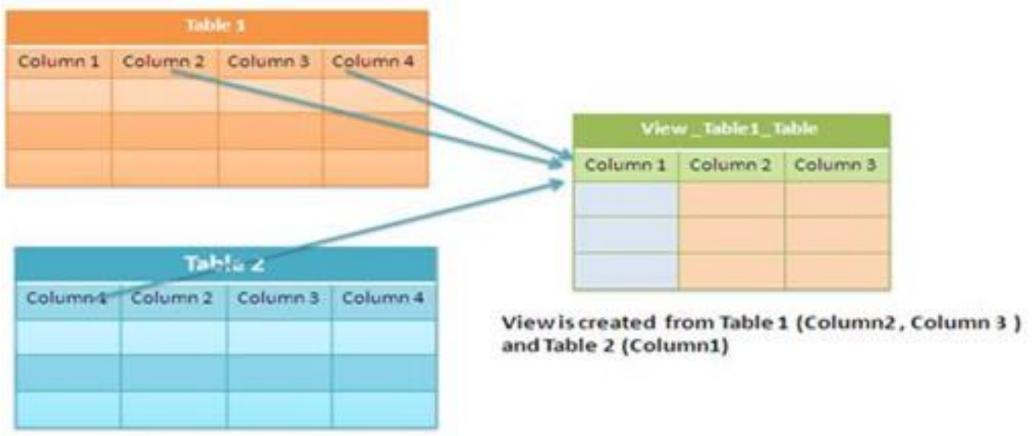


A View is a logical or virtual table. The fields in a view are fields from one or more real tables in the database.

There are two major reasons you might want to use views:

Views allow you to limit the data users can access

Views reduce complexity for end users.





# Creating a view

CREATE VIEW View\_Name [list of column names]

AS

SELECT...

### **Example**:

CREATE VIEW view\_EmployeeByDpt
AS
SELECT ID, NAME, AGE, DEPT\_NAME
FROM EMP, DEPARTMENT
WHERE EMP.DEP\_ID = DEPARTMENT.DEPT\_ID

SELECT \* FROM view\_EmployeeByDpt

view\_EmployeeByDpt

#### ID NAME AGE DEP\_ID 3 1 John 25 2 Mike 30 2 Parm 25 1 Todd 23 Sara

40

Ben

**Table: EMP** 

3

#### **Table: DEPARTMENT**

DEPT_ID	DEPT_NAME
1	Π
2	Payroll
3	HR
4	Admin

ID	NAME	AGE	DEPT_NAME
1	John	25	HR
2	Mike	30	Payroll
3	Parm	25	IT
4	Todd	23	Admin
5	Sara	35	IT
6	Ben	40	HR

# Deleting a view



Syntax:

DROP VIEW View\_Name

#### Example:

DROP VIEW view\_EmployeeByDpt









Naming convention and styles



### NAMING CONVENTION AND STYLES

### 1.Use UPPER CASE for all T-SQL constructs, excepts Types

#### **Correct:**

SELECT MAX([Salary]) FROM dbo.[EmployeeSalary]

#### **Incorrect:**

SELECT max([Salary]) from dbo.[EmployeeSalary]

### 2.Use lower case for all T-SQL Types and Usernames

#### **Correct:**

DECLARE @MaxValue int

#### **Incorrect:**

DECLARE @MaxValue INT

### NAMING CONVENTION AND STYLES



### 3. Use Pascal casing for all UDO's

#### **Correct:**

```
CREATE TABLE dbo.EmployeeSalary
         EmployeeSalaryID
                            INT
Incorrect:
CREATE TABLE dbo. Employeesalary
         EmployeesalaryID
                          int
```

# FPI

### NAMING CONVENTION AND STYLES

### 4. Avoid abbreviations and single character names

#### **Correct:**

DECLARE @RecordCount int

#### **Incorrect:**

DECLARE @Rc int

# 5.UDO naming must confer to the following regular expression ([a-zA-Z][a-zA-Z0-9]).

Do not use any special or language dependent characters to name objects. Constraints can use the underscore character.

#### **Correct:**

CREATE TABLE dbo. [EmployeeSalary]

#### **Incorrect:**

CREATE TABLE dbo. [Employee Salary]

### NAMING CONVENTION AND STYLES



### 6. Use the following prefixes when naming objects

usp\_: User stored procedures

ufn: User defined functions

view\_: Views

IX\_: Indexes

usp\_: User stored procedures

DF\_: Default constraints

PK\_: Primary Key constraints

FK\_: Foreign Key constraints

CHK\_: Check constraints

UNI\_: Unique constraints

#### **Correct:**

CREATE PROCEDURE dbo.usp\_EmployeeSelectAll

#### **Incorrect:**

CREATE PROCEDURE dbo.EmployeeSelectRetired --without preffixed

### NAMING CONVENTION AND STYLES



### 7. Name tables in the singular form

#### **Correct:**

CREATE TABLE dbo. [Employee]

#### **Incorrect:**

CREATE TABLE dbo. [Employees]

8. Tables that map one-to many, many-to-many relationships should be named by concatenating the names of the tables in question, starting with the most central table's name.

#### **Correct:**

CREATE TABLE dbo. [EmployeeSalary]



# Thank you!

Any questions?