L .net frameworks basics
L CLR, CTS, CLS, MSIL, JIT
L Assembly Structure

L oop concepts | inheritance, virtual, override,
                  sealed, abstract, static, Interface
L Event Delegates
L file I/o - serialization & de serialization

↳ Attribute ⟶ type metadata
↳ Reflection

features

- Collection
- partial class
- nullable type
- generics
- Implicit type (var)
- Auto property
- object Initializer
- Anonymous Type
- Anonymous method
- lambada Expression
- func / Action delegates

↳ Extension method

↳ (Linq) — select.

↳ Linq

↳ partial method Iterator,
dynamic, optional & named para—

↳ Ado.net — DB programming

1. Sql Server Standard
2. Sql Server Enterprise
3. Sql Express — free (4 gb — 8 gb — 16 gb)

Sql server 2016

Instance
Name [SACSD]

Ac
Token

client tools [✓]

server tools ( )

both ( )

Authentication Mode

Windows ☐

SqlServer ☑ ⟶

Mixed ☐

Username

Pass

```
Server = Instance name ;
Database = dBname
UserId     = ___
Password = ___
```

↑

this means
you are using
Sql Server Credentials

```
Server = Instance name
Database = dBName
Integrated Security = true
                    =
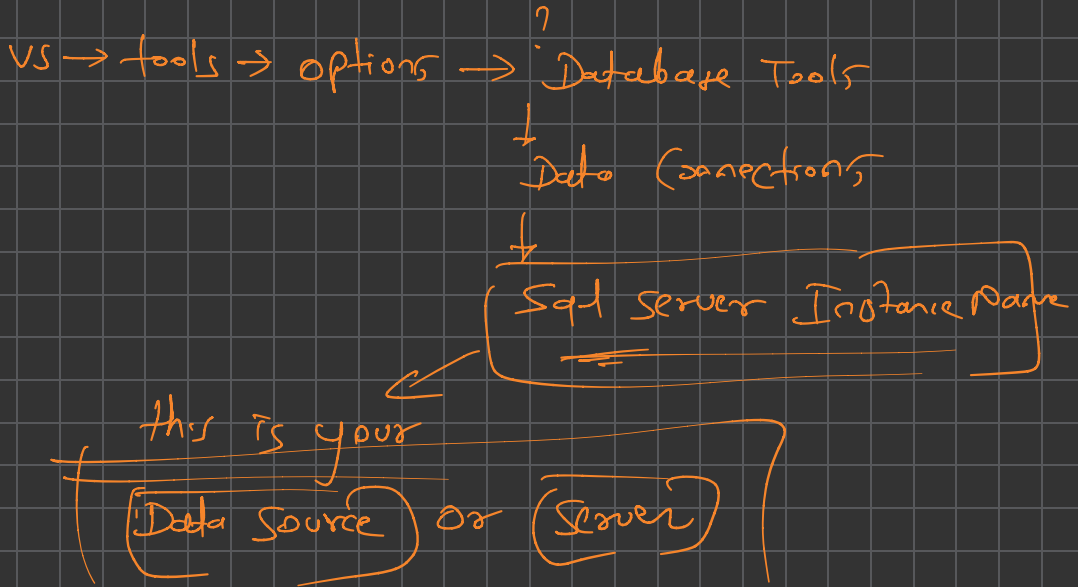```

↑

it means you
are using
windows Credentials

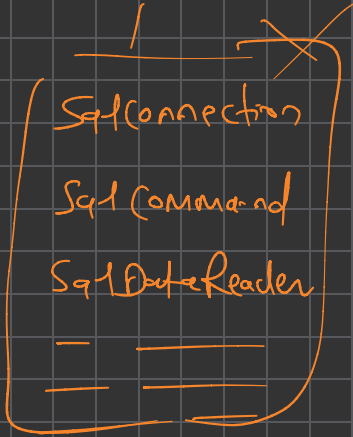$Server = Instance Name$

$Data Source = Instance na$

$Database = dbname$
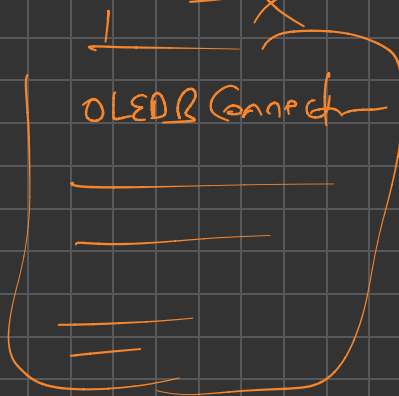
$Initial Catalog = dbname$

# SqlExpress

VS → tools → options → Database Tools
                          ↓
                       Data Connections
                          ↓
         ┌─────────────────────────────────────┐
         │ Sql server Instance Name             │
         │        ═══                           │
         └─────────────────────────────────────┘
            ↙

this is your

( Data Source )  Or  ( Server )

system-data - dll

NS SqlClient

SqlConnection
Sql Command
SqlDataReader

NS OLEDB

OLEDB Connection

NS ODBC

ODBC

Microsoft data satclidli