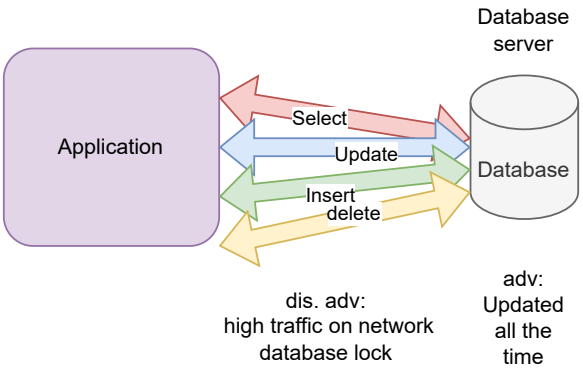
ADO.net

ActiveX Data Object

1) DataSource => Microsoft.Data.SqlClient

2) Connection Mode

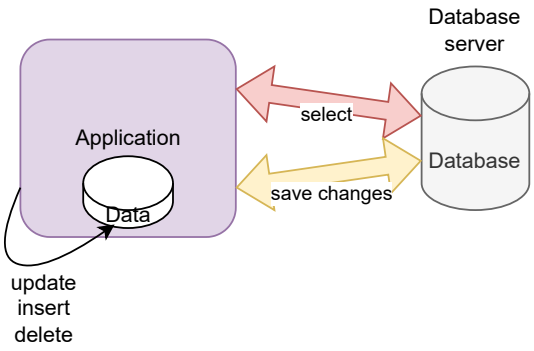
Connected Mode



dis. adv:
high traffic on network
database lock

adv:
Updated
all the
time

Disconnected Mode



update
insert
delete

Connect Mode steps

1) define connection
   SqlConnection con => connection string (server,database,authentication)
2) define command
   SqlCommand cmd => type(text,tableDirect,StoredProc.), text, connection

3) open connection => con.Open()

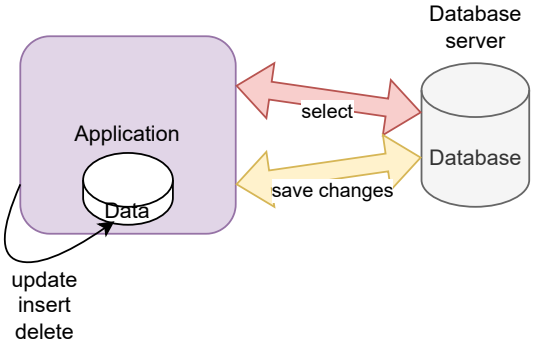
4) Execute command => cmd
   ExceuteScaler ----------> Select for one value (one cell)
   ExecuteReader ----------> Select multi cells (row, column, table)
   ExecuteNonQuery ----------> insert, update, delete

5) Display Data
6) close connection => con.Close()

CRUD

C => Create
R => Read
U => Update
D => Delete

Disconnected Mode



1) define SqlConnection

2) define SqlDataAdaptor

Getting Data

3) Command Select
4) attach command with dataAdaptor\
5) adptor.fill(dt)

During using app

DataTable			
ID	Name	Age	Status
			Modified
			Unchanged
			Deleted
			Deleted
			Added

Update Database

3) Commands
insert - update - delete
4) attach commands to SqlDataAdaptor
5) adptor.update(dt)

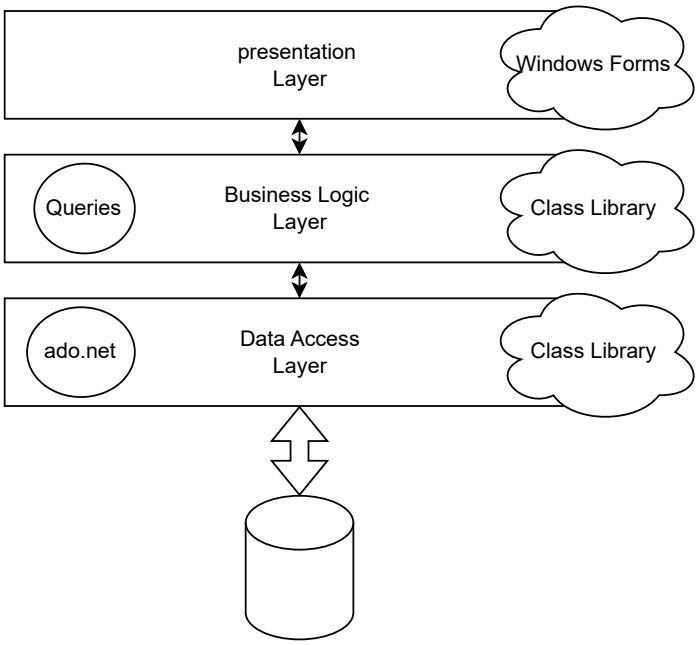
Layered Model

Form1.cs

- prepare user interface (presntation)

- Business logic

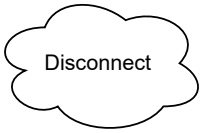
- Database used

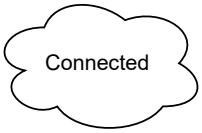


Data Access

CRUD

Read => Select **create => insert** **Update => update** **Delete => Delete**





Lab

- Instructor will login using username(name) and password(degree)
- show courses related to the instructor and cn do CRUD oerations
- using layered model