



Chương 5: CRYSTAL REPORT

Mục tiêu

- -Xây dựng ứng dụng đa form, tạo menu.
- -Sử dụng các đối tượng ADO.NET để kết nối CSDL
- -Thao tác CRUD trong .NET
- -Kỹ năng tạo báo cáo trong .NET với ứng dụng Crystal Report.

Nội dung

- Thiết kế Report
- Các thuộc tính của CrystalReportViewer
- Thuộc tính của Report
- Field Explorer
- Tham khảo các hàm và phép toán trong Crystal Report

Crystal Report

➤ Bản cài đặt:

<https://www.tektutorialshub.com/crystal-reports/download-crystal-reports-for-visual-studio-2019/>

Crystal Reports Version	Supported IDE	tải bản này cho win 64 bit	Developer Edition Download	Runtime Download
Service Pack 29	Visual Studio 2019, 2017,2015,2013,2012,2010		SP 29	32 Bit 64 Bit
Service Pack 28	Visual Studio 2019, 2017,2015,2013,2012,2010		SP 28	32 Bit 64 Bit
Service Pack 27	Visual Studio 2019, 2017,2015,2013,2012,2010		SP 27	32 Bit 64 Bit
Service Pack 26	Visual Studio 2019, 2017,2015,2013,2012,2010		SP 26	32 Bit 64 Bit
Service Pack 25	Visual Studio 2019, 2017,2015,2013,2012,2010		SP 25	32 Bit 64 Bit

➤ Tạo CSDL

DESKTOP-H68FGFI\S...LSV - dbo.tblDiem X

	Column Name	Data Type	Allow Nulls
▶ 🔑	MaSV	char(11)	<input type="checkbox"/>
▶ 🔑	MaMH	char(10)	<input type="checkbox"/>
	Diem	float	<input checked="" type="checkbox"/>
	GhiChu	nchar(10)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

DESKTOP-H68FGFI\...V - dbo.tblMonHoc X DESKTOP-H68FGFI\S...LSV -

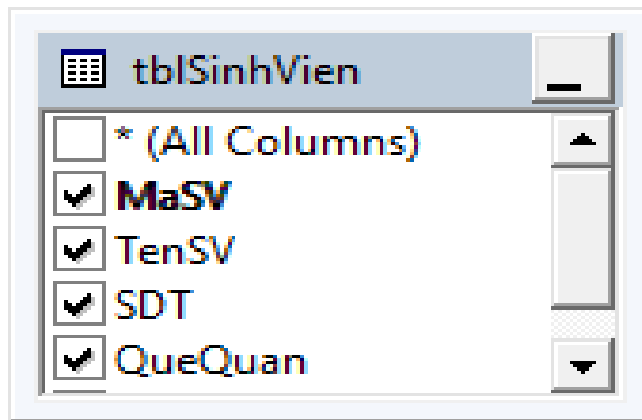
	Column Name	Data Type	Allow Nulls
▶ 🔑	MaMH	char(10)	<input type="checkbox"/>
	TenMH	nvarchar(50)	<input checked="" type="checkbox"/>
	SoTC	int	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

DESKTOP-H68FGFI\S...- dbo.tblSinhVien X DESKTOP-H68FGFI\...V - db

	Column Name	Data Type	Allow Nulls
▶ 🔑	MaSV	char(11)	<input type="checkbox"/>
	TenSV	nvarchar(50)	<input checked="" type="checkbox"/>
	SDT	char(10)	<input checked="" type="checkbox"/>
	QueQuan	nvarchar(100)	<input checked="" type="checkbox"/>
	GhiChu	nvarchar(100)	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

➤ Tạo View

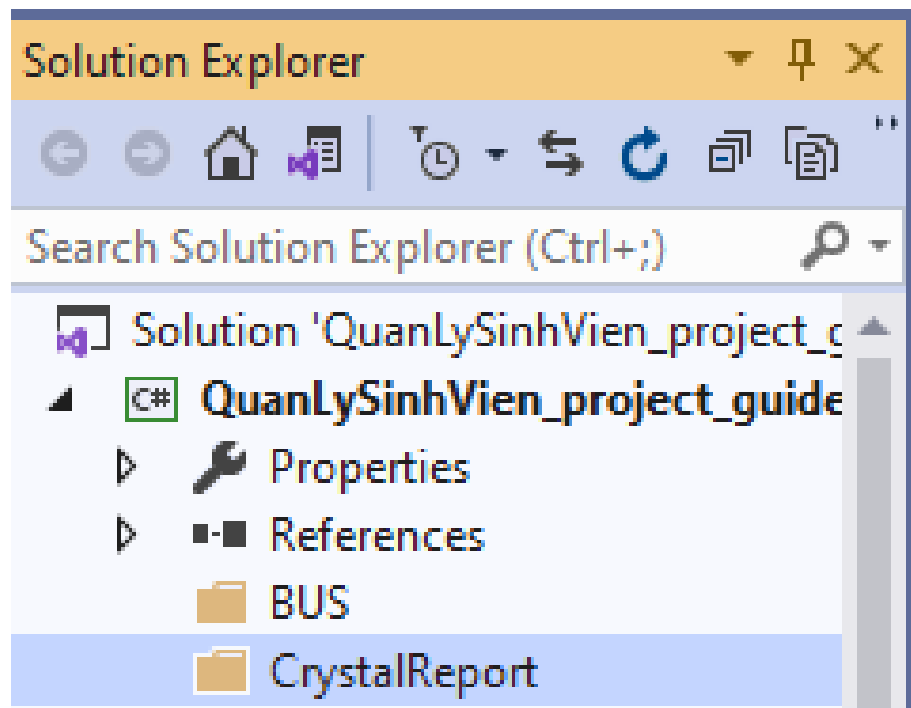
DESKTOP-H68FGFI\S...dbo.v_tblSinhVien* X DESKTOP-H68FGFI\S...- dbo.tblSinhVien



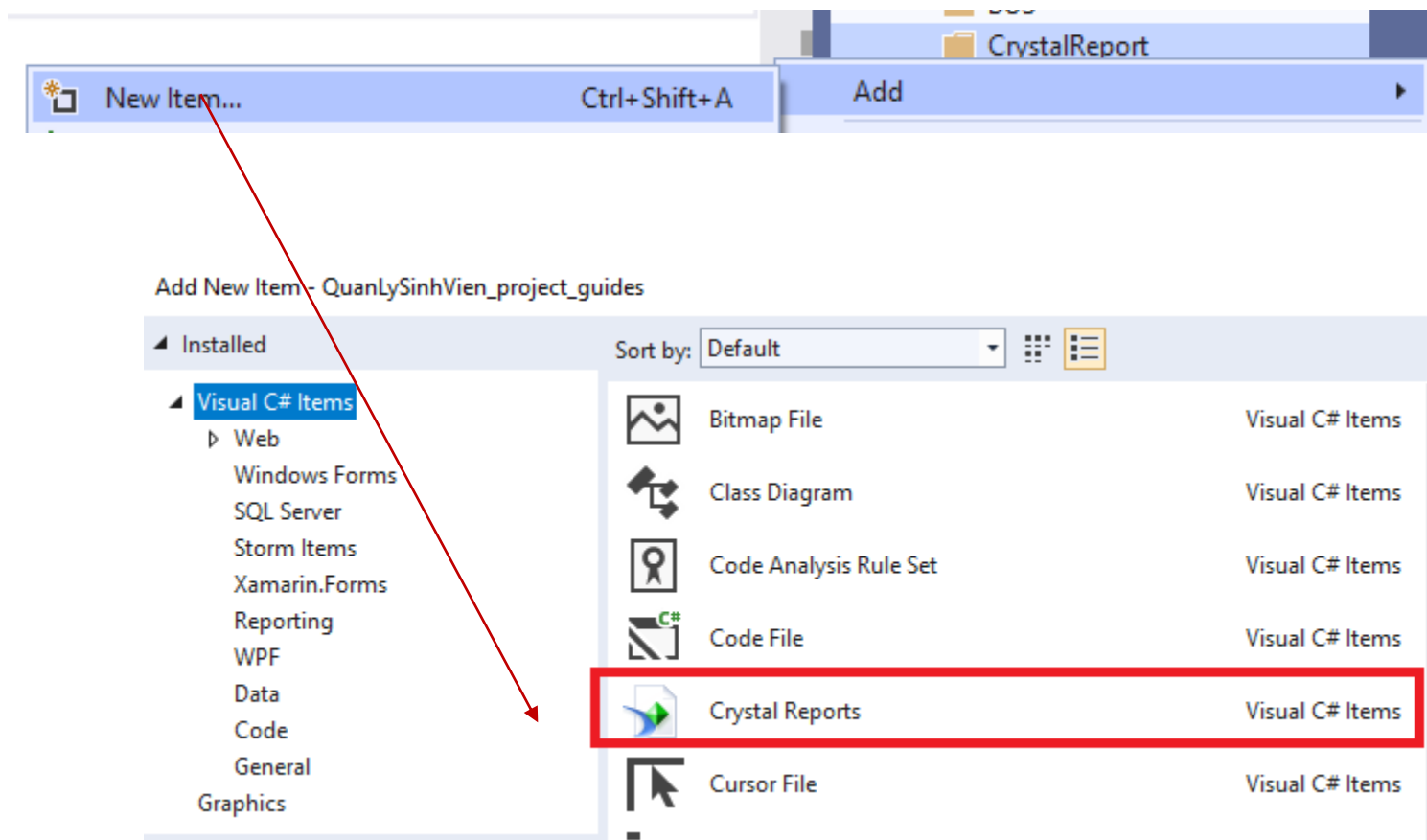
	Column	Alias	Table	Outp...	Sort Type
▶	MaSV		tblSinhVien	<input checked="" type="checkbox"/>	
	TenSV		tblSinhVien	<input checked="" type="checkbox"/>	

```
SELECT  MaSV, TenSV, SDT, QueQuan, GhiChu
FROM    dbo.tblSinhVien
```

- Trong Project tạo thư mục CrystalReport

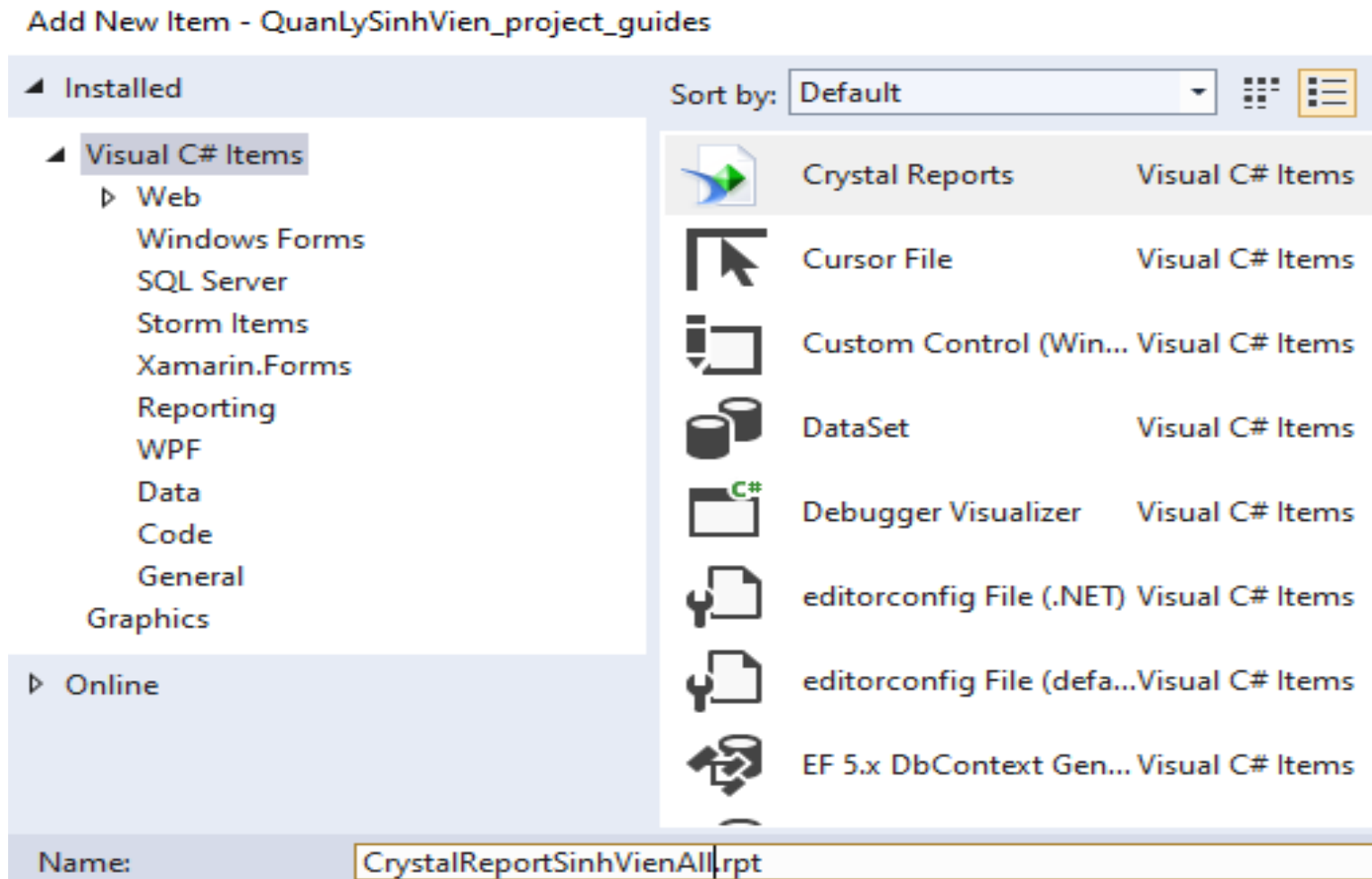


Crystal Report

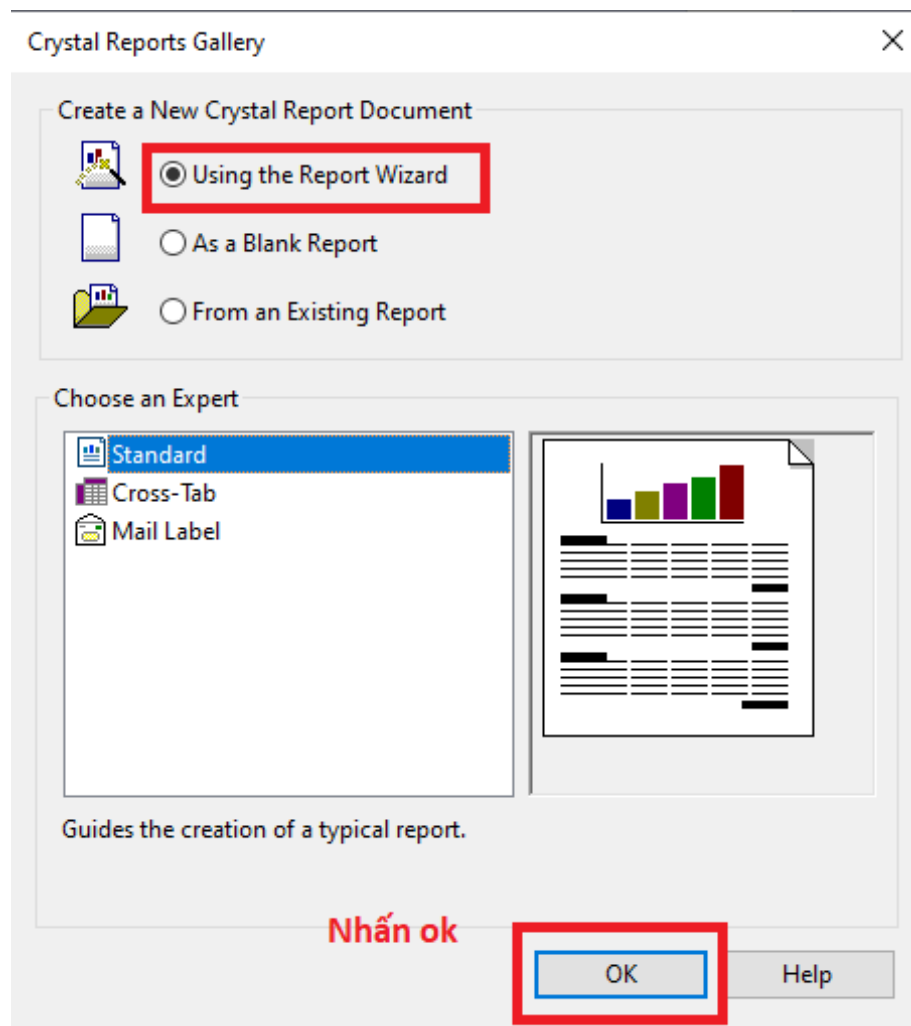


Crystal Report

- Đặt tên file là CrystalReportSinhVienAll



Crystal Report



Crystal Report

Standard Report Creation Wizard

Data

Choose the data you want to report on.

Available Data Sources:

- + Project Data
- + My Connections
- Create New Connection
 - + Access/Excel (DAO)
 - + ADO.NET (XML)
 - + Database Files
 - + ODBC (RDO)
 - + **OLE DB (ADO)**
 - + More Data Sources

Nhấn vào dấu +

Selected Tables:

< Back

Next >

Finish

Cancel

Help

Crystal Report

OLE DB (ADO)



OLE DB Provider

Select a provider from the list or select a data link file.

Provider:

- Microsoft Jet 4.0 OLE DB Provider
- Microsoft Office 12.0 Access Database Engine O
- Microsoft Office 16.0 Access Database Engine O
- Microsoft OLE DB Provider for Analysis Services
- Microsoft OLE DB Provider for ODBC Drivers
- Microsoft OLE DB Provider for Oracle
- Microsoft OLE DB Provider for Search
- Microsoft OLE DB Provider for SQL Server**
- Microsoft OLE DB Simple Provider

Use Data Link File: ☐

Microsoft Data Link File:

< Back **Next >** Finish Cancel Help

Crystal Report

OLE DB (ADO) ✕

Connection Information
Provide necessary information to log on to the chosen data source.

Server: **Tên máy chủ** DESKTOP-H68FGFI\SQLSERVER ▼

User ID: **Tài khoản**
Đăng nhập hoangtn1204

SQL server

Password: **Mật khẩu** ...

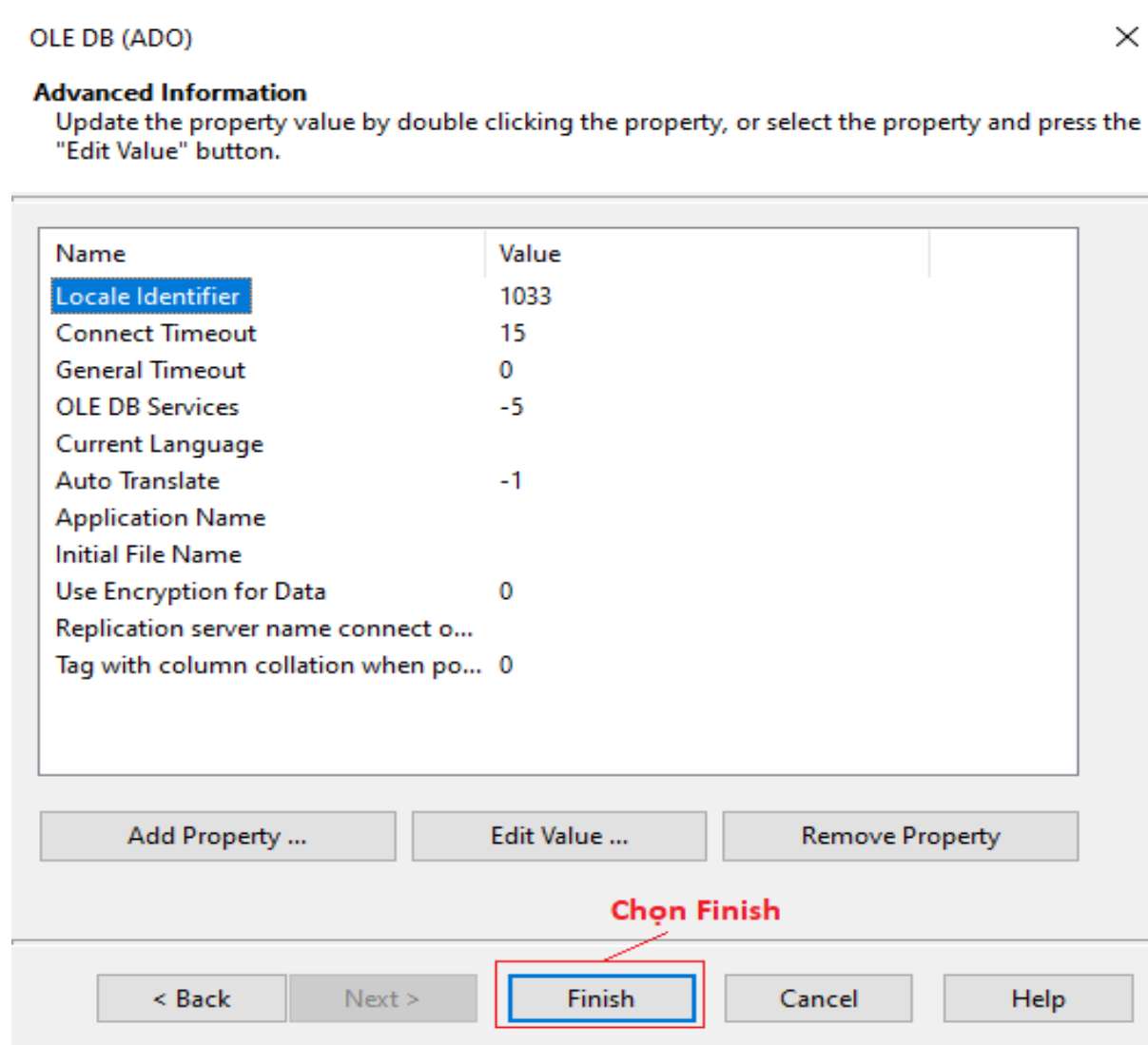
Database: **Cơ sở dữ liệu** QLSV ▼

Integrated Security: ☐

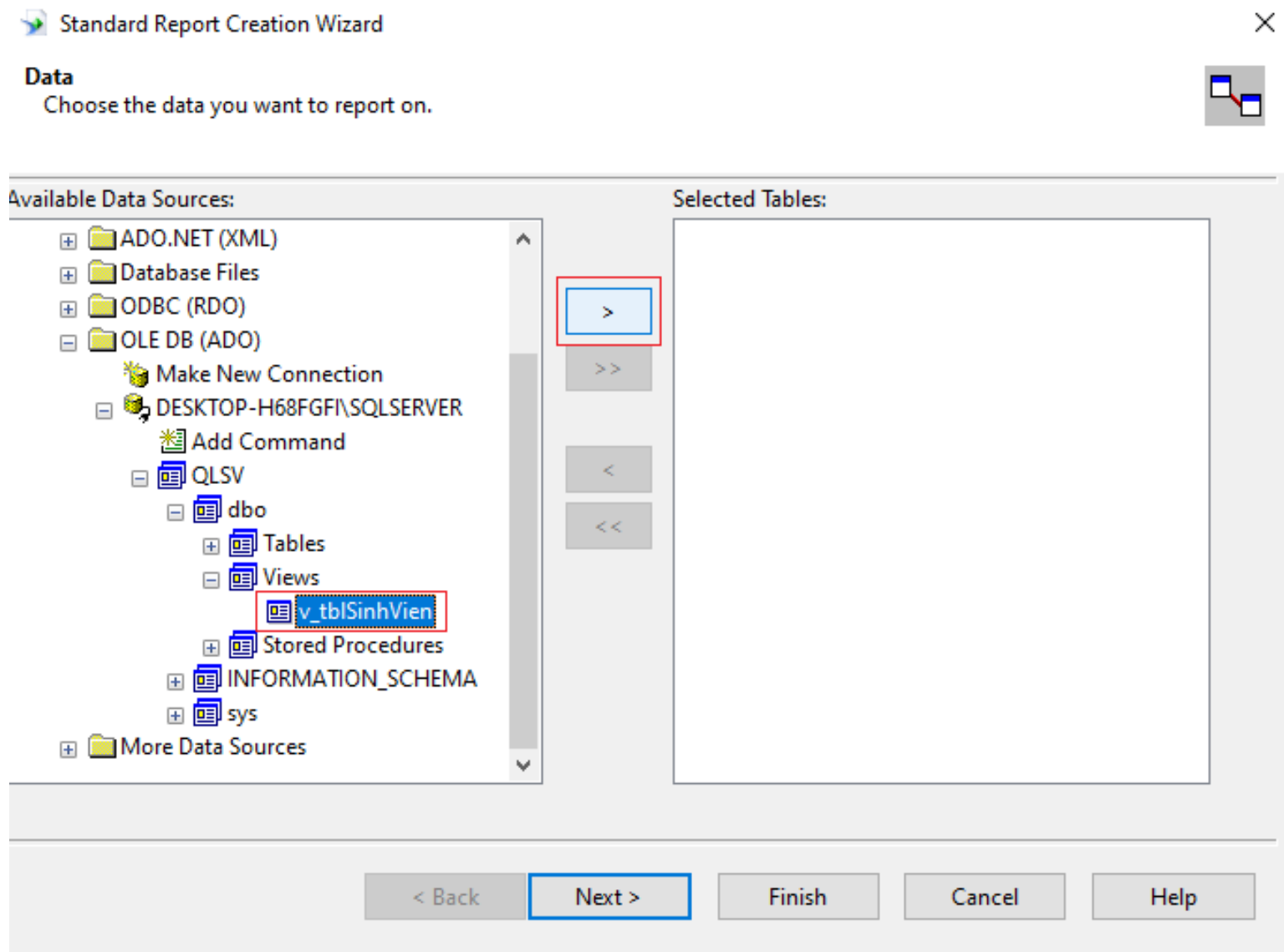
Chọn Next

< Back **Next >** Finish Cancel Help

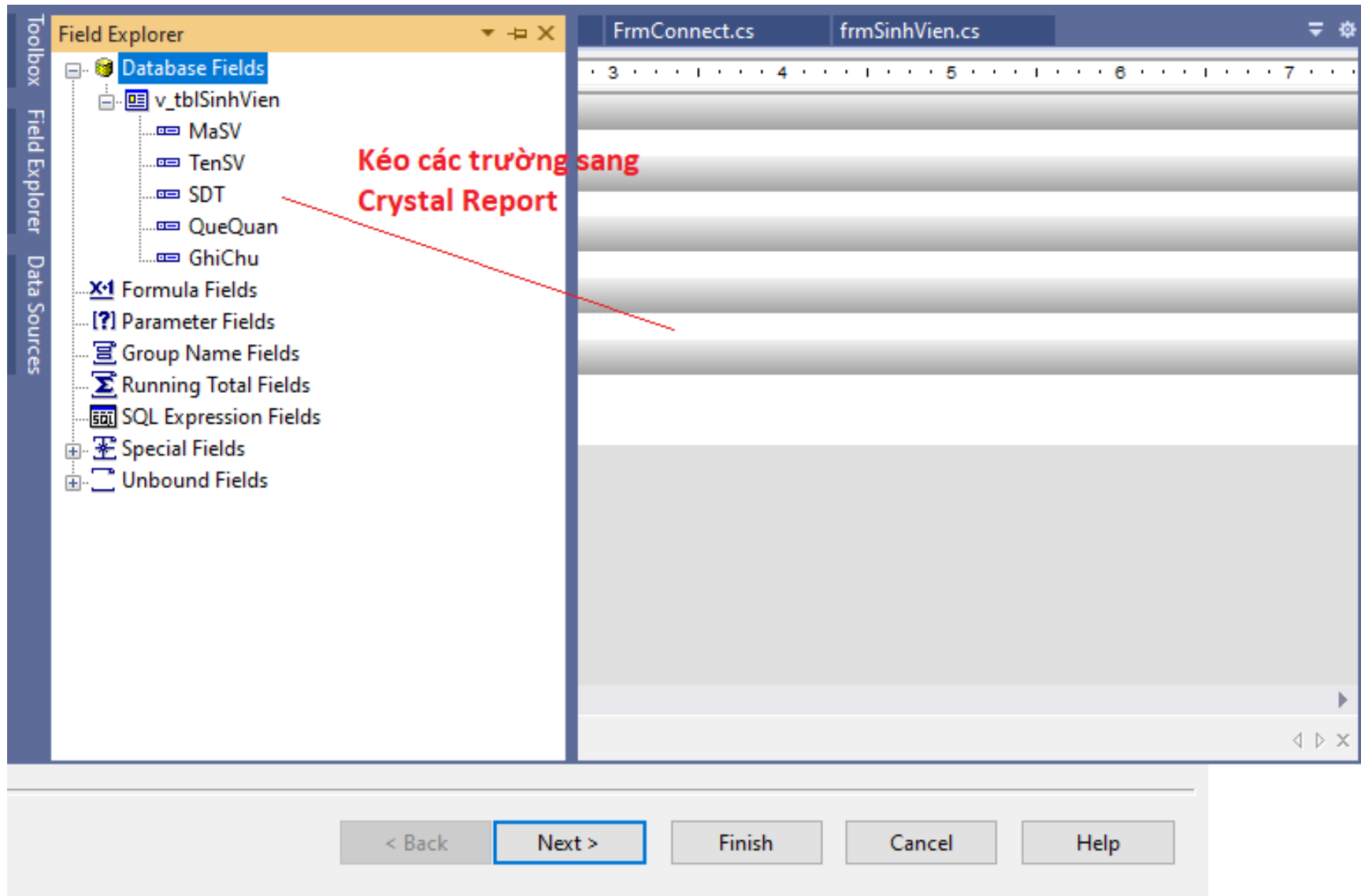
Crystal Report



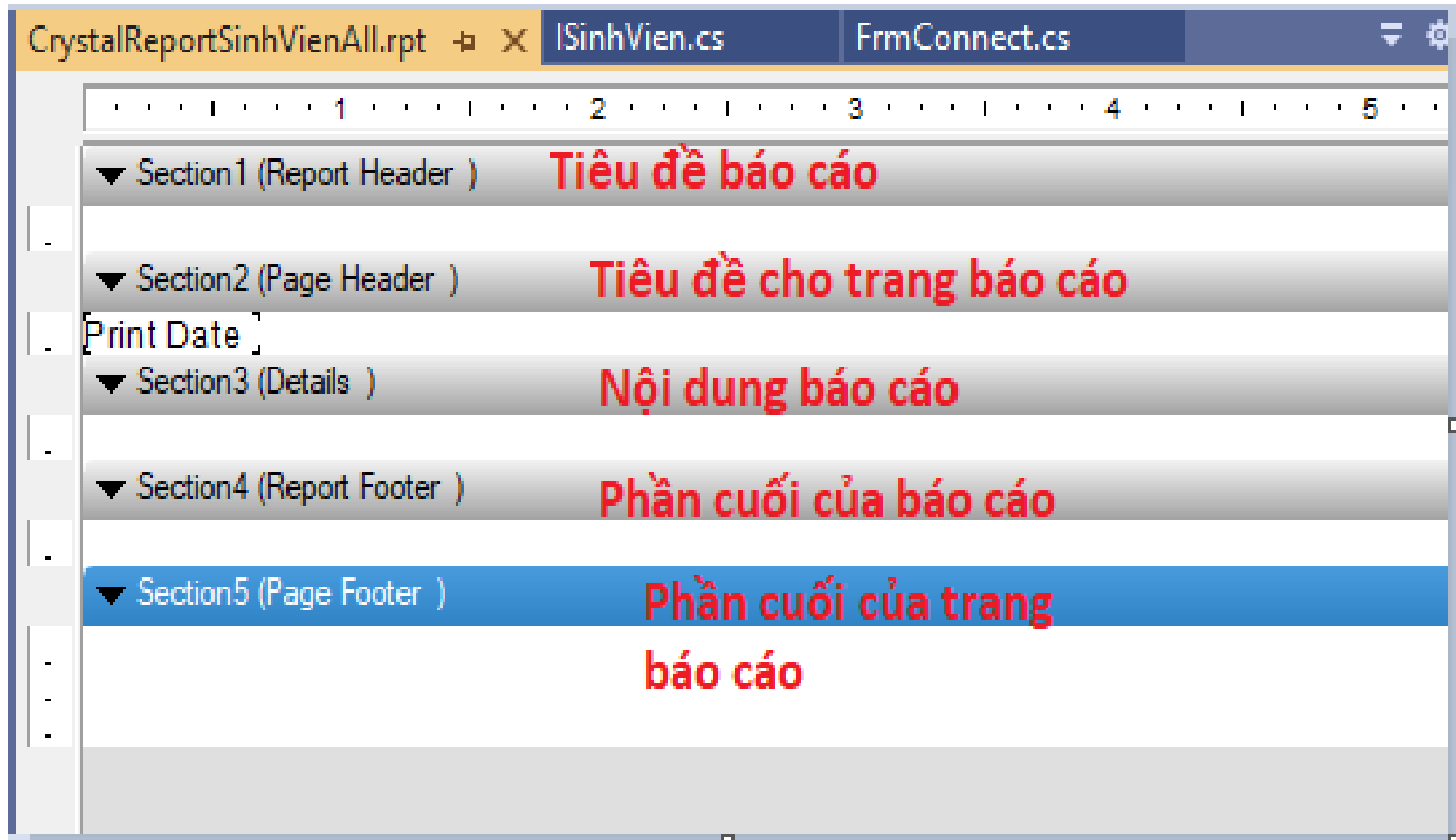
Crystal Report



Crystal Report



Crystal Report



Crystal Report

CrystalReportSinhVienAll.rpt* x ISinhVien.cs FrmConnect.cs

Section1 (Report Header)

BÁO CÁO SINH VIÊN ĐANG HỌC

Section2 (Page Header)

Mã SV Tên SV SDT Quê quán Ghi

Section3 (Details)

MãSV TênSV SDT QueQuan Ghi

CrystalReportSinhVienAll.rpt* x ISinhVien.cs FrmConnect.cs

☒ Save data in the report

1 / 1 100%

SAP CRYSTAL REPORTS®

BÁO CÁO SINH VIÊN ĐANG HỌC

Mã SV	Tên SV	SDT	Quê quán
20011930055	Nguyễn Thị Nhật Vy	0933434356	Ninh Bình
20011930061	Mai Duy Chung	0911222333	Thanh Hóa
20011930077	Phan Th? Mai Hoa	0933434356	Vinh Phu
20011930088	Hoàng Thị Luyến	0987222134	Nam Định
20011930125	Mai Thúy Hằng		Hải Dương
20011930131	Hoàng Thị Thu Hòa	0983255187	Thái Bình
20011930133	Nguyễn Thị Phúc Hươ	0981222555	Thạch Thất - Hà Nội
20011930142	Trần Minh Nguyễn	0975223456	Thái Bình
20011930149	Hoàng Phương Thảo	0975455677	Bắc Ninh
20011930272	Hà Trọng		Thái Bình
20011930275	Đặng Linh Chi		Vĩnh Phúc
20011930321	Nguyễn Duy Tiến	0983466788	Hà Nội

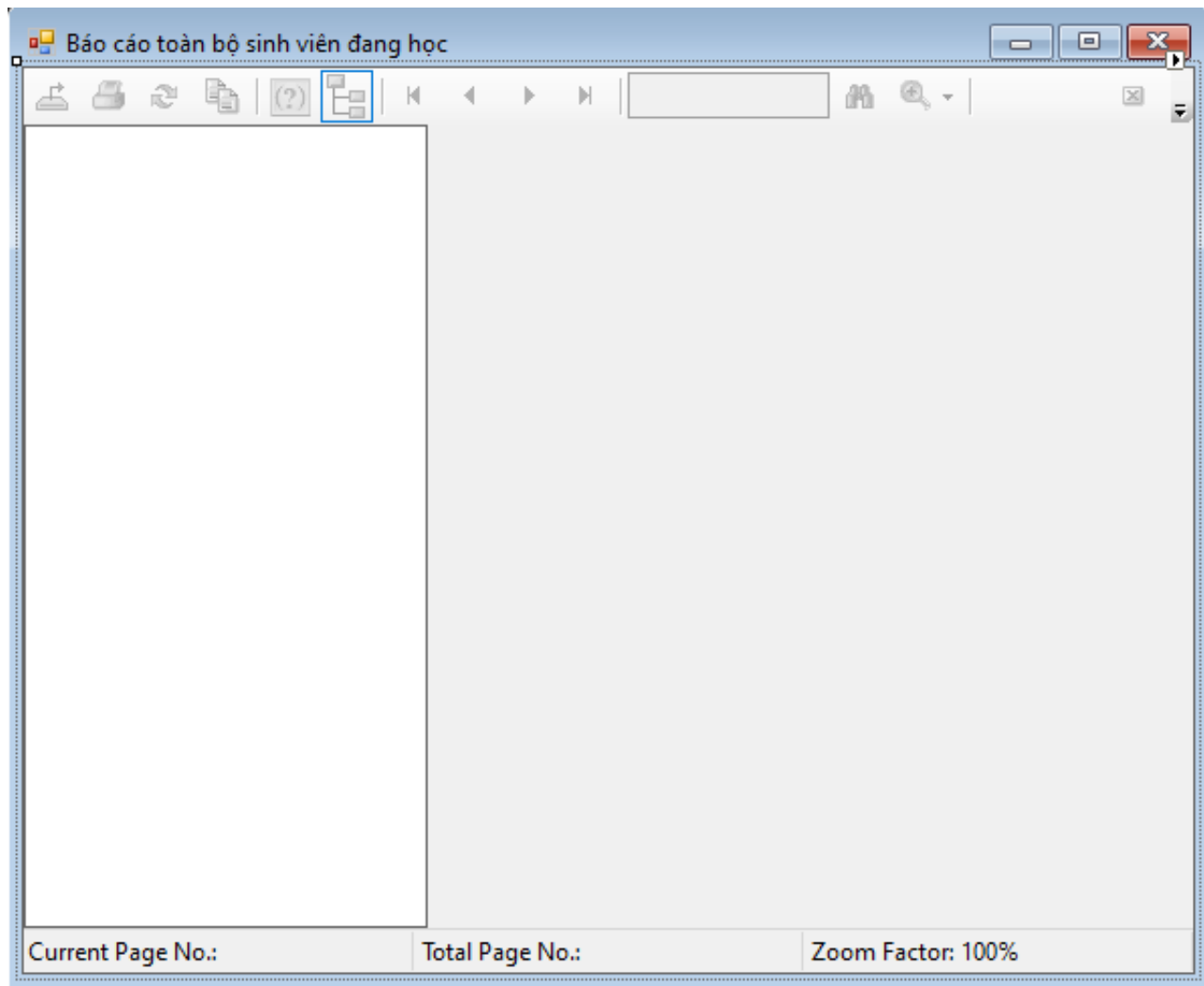
Crystal Report

➤ Trong C# tạo lớp:

```
namespace QuanLySinhVien_project_guides.BUS
{
    1 reference
    class ClsReportSinhVien
    {
        1 reference
        public void BaoCaoAllSV(CrystalReportViewer reporViewer,string CrystalReportFileName)
        {
            ReportDocument Report = new ReportDocument();
            Report.Load(CrystalReportFileName);
            Report.SetDatabaseLogon( "hoangtn1204", "123", @"DESKTOP-H68FGFI\SQLSERVER", "QLSV");
            reporViewer.ReportSource = Report;
        }
    }
}
```

Crystal Report

- Tạo form frmReportSV, add thêm CrystalReportViewer



Crystal Report

- Trong phương thức load form ghi đoạn code

```
private void frmReportSV_Load(object sender, EventArgs e)
{
    BUS.ClsReportSinhVien report = new BUS.ClsReportSinhVien();
    report.BaoCaoAllSV(rpvSinhvienAll1, @"..\..\CrystalReport\cRSinhVien.rpt");
}
```



The End