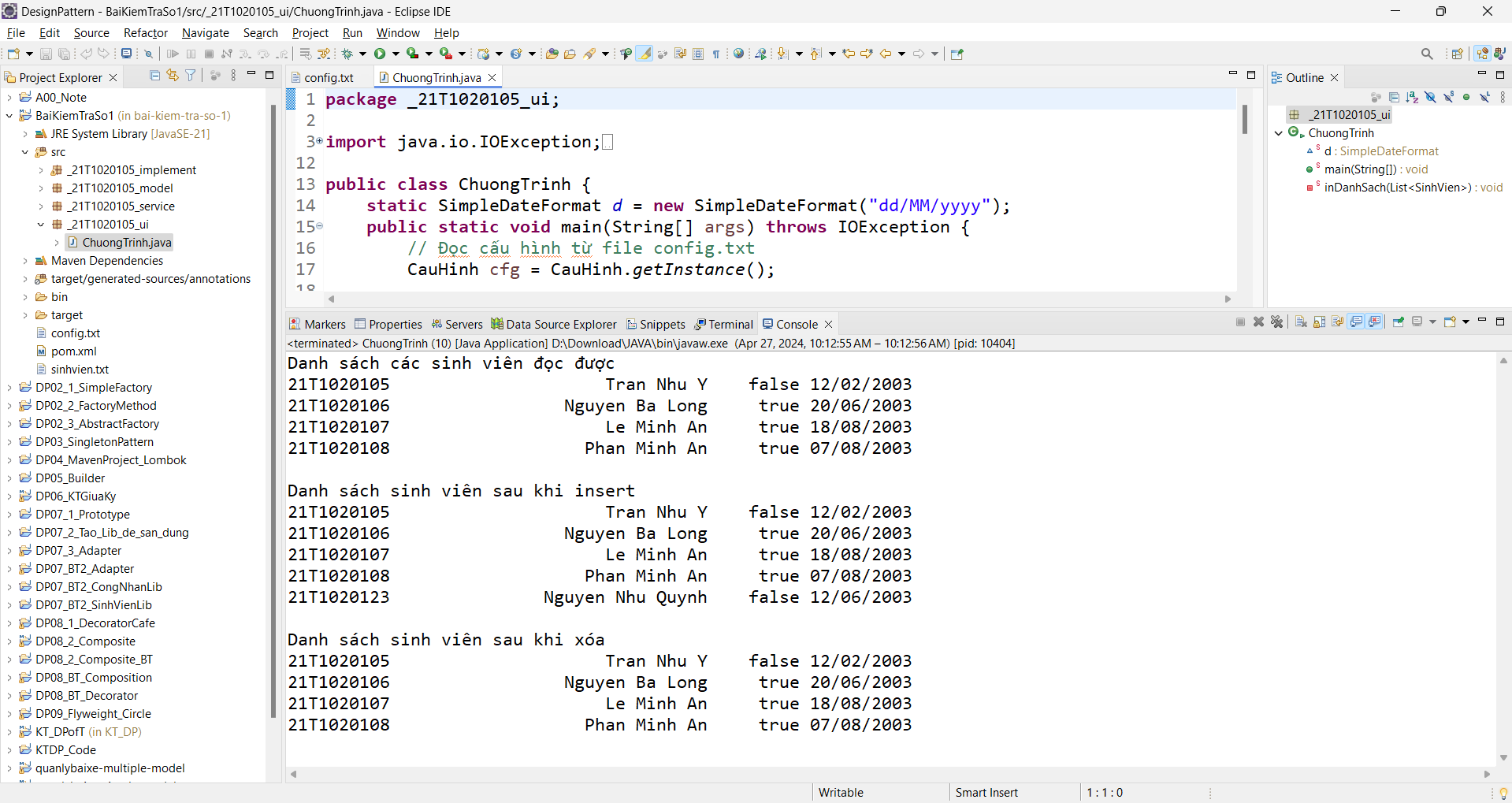
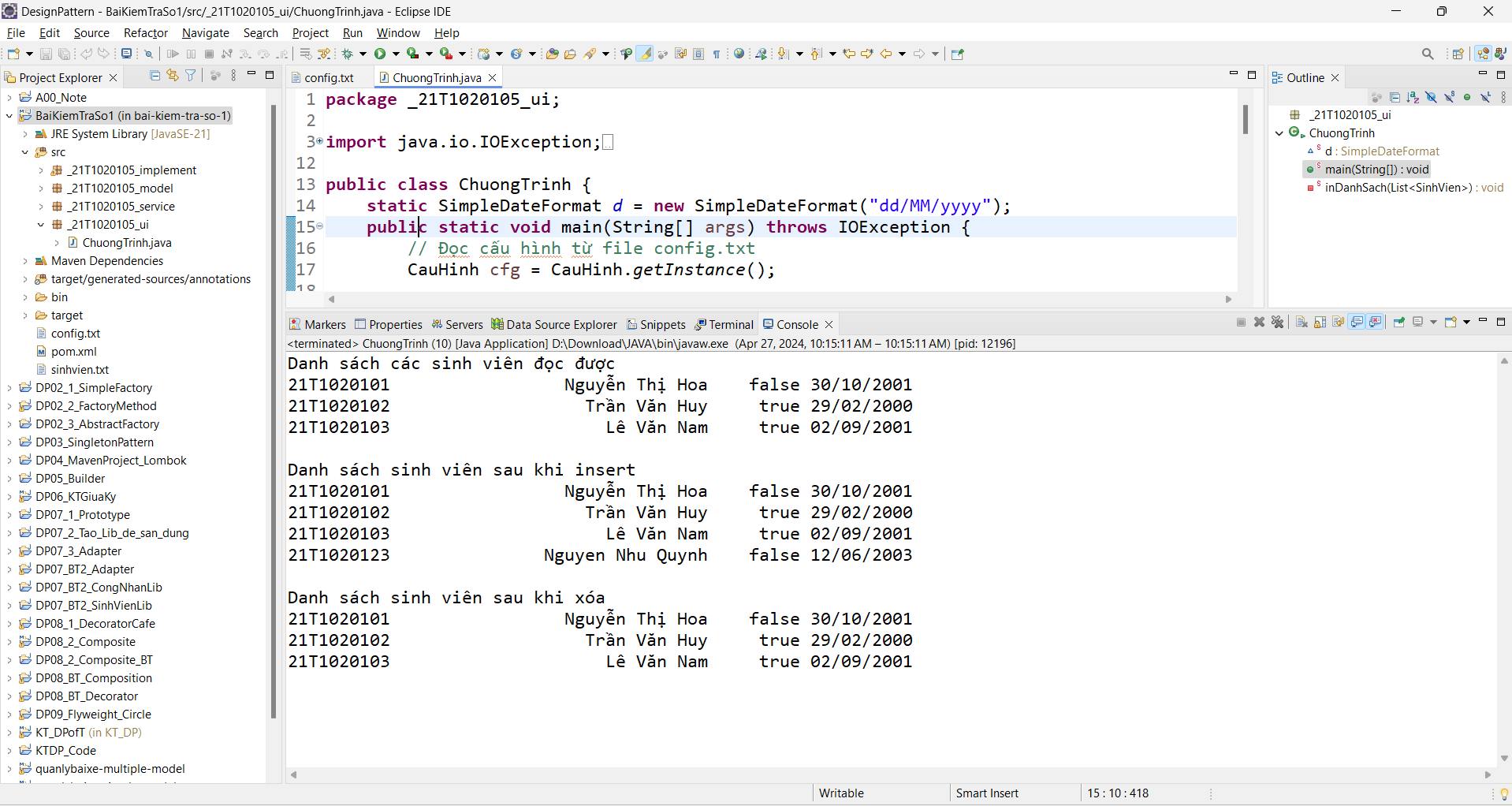
**Hình minh họa chạy chương trình:**

1. **Sử dụng nguồn dữ liệu từ SQL Server:**

****

1. **Sử dụng nguồn dữ liệu từ file TXT:**

****

**Script của CSDL:**

USE [master]

GO

/\*\*\*\*\*\* Object: Database [DB\_KTra\_DP] Script Date: 4/27/2024 10:18:31 AM \*\*\*\*\*\*/

CREATE DATABASE [DB\_KTra\_DP]

CONTAINMENT = NONE

ON PRIMARY

( NAME = N'DB\_KTra\_DP', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\DB\_KTra\_DP.mdf' , SIZE = 4096KB , MAXSIZE = UNLIMITED, FILEGROWTH = 1024KB )

LOG ON

( NAME = N'DB\_KTra\_DP\_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\DB\_KTra\_DP\_log.ldf' , SIZE = 1024KB , MAXSIZE = 2048GB , FILEGROWTH = 10%)

GO

ALTER DATABASE [DB\_KTra\_DP] SET COMPATIBILITY\_LEVEL = 120

GO

IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))

begin

EXEC [DB\_KTra\_DP].[dbo].[sp\_fulltext\_database] @action = 'enable'

end

GO

ALTER DATABASE [DB\_KTra\_DP] SET ANSI\_NULL\_DEFAULT OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET ANSI\_NULLS OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET ANSI\_PADDING OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET ANSI\_WARNINGS OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET ARITHABORT OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET AUTO\_CLOSE OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET AUTO\_SHRINK OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET AUTO\_UPDATE\_STATISTICS ON

GO

ALTER DATABASE [DB\_KTra\_DP] SET CURSOR\_CLOSE\_ON\_COMMIT OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET CURSOR\_DEFAULT GLOBAL

GO

ALTER DATABASE [DB\_KTra\_DP] SET CONCAT\_NULL\_YIELDS\_NULL OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET NUMERIC\_ROUNDABORT OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET QUOTED\_IDENTIFIER OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET RECURSIVE\_TRIGGERS OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET DISABLE\_BROKER

GO

ALTER DATABASE [DB\_KTra\_DP] SET AUTO\_UPDATE\_STATISTICS\_ASYNC OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET DATE\_CORRELATION\_OPTIMIZATION OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET TRUSTWORTHY OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET ALLOW\_SNAPSHOT\_ISOLATION OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET PARAMETERIZATION SIMPLE

GO

ALTER DATABASE [DB\_KTra\_DP] SET READ\_COMMITTED\_SNAPSHOT OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET HONOR\_BROKER\_PRIORITY OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET RECOVERY FULL

GO

ALTER DATABASE [DB\_KTra\_DP] SET MULTI\_USER

GO

ALTER DATABASE [DB\_KTra\_DP] SET PAGE\_VERIFY CHECKSUM

GO

ALTER DATABASE [DB\_KTra\_DP] SET DB\_CHAINING OFF

GO

ALTER DATABASE [DB\_KTra\_DP] SET FILESTREAM( NON\_TRANSACTED\_ACCESS = OFF )

GO

ALTER DATABASE [DB\_KTra\_DP] SET TARGET\_RECOVERY\_TIME = 0 SECONDS

GO

ALTER DATABASE [DB\_KTra\_DP] SET DELAYED\_DURABILITY = DISABLED

GO

EXEC sys.sp\_db\_vardecimal\_storage\_format N'DB\_KTra\_DP', N'ON'

GO

USE [DB\_KTra\_DP]

GO

/\*\*\*\*\*\* Object: Table [dbo].[SinhVien] Script Date: 4/27/2024 10:18:32 AM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[SinhVien](

[MaSinhVien] [nvarchar](10) NOT NULL,

[HoTen] [nvarchar](50) NOT NULL,

[GioiTinhNam] [bit] NOT NULL,

[NgaySinh] [date] NOT NULL,

CONSTRAINT [PK\_SinhVien] PRIMARY KEY CLUSTERED

(

[MaSinhVien] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

INSERT [dbo].[SinhVien] ([MaSinhVien], [HoTen], [GioiTinhNam], [NgaySinh]) VALUES (N'21T1020105', N'Tran Nhu Y', 0, CAST(N'2003-02-12' AS Date))

INSERT [dbo].[SinhVien] ([MaSinhVien], [HoTen], [GioiTinhNam], [NgaySinh]) VALUES (N'21T1020106', N'Nguyen Ba Long', 1, CAST(N'2003-06-20' AS Date))

INSERT [dbo].[SinhVien] ([MaSinhVien], [HoTen], [GioiTinhNam], [NgaySinh]) VALUES (N'21T1020107', N'Le Minh An', 1, CAST(N'2003-08-18' AS Date))

INSERT [dbo].[SinhVien] ([MaSinhVien], [HoTen], [GioiTinhNam], [NgaySinh]) VALUES (N'21T1020108', N'Phan Minh An', 1, CAST(N'2003-08-07' AS Date))

USE [master]

GO

ALTER DATABASE [DB\_KTra\_DP] SET READ\_WRITE

GO

**Dữ liệu của file minh họa của nguồn dữ liệu TXT:**

21T1020101,Nguyễn Thị Hoa,false,2001/10/30

21T1020102,Trần Văn Huy,true,2000/02/29

21T1020103,Lê Văn Nam,true,2001/09/02