# FoxPro Working Environment

The working environment of FoxPro refers to the different parts of the screen and tools that help the user create, edit, manage, and run database applications. When FoxPro starts, several components appear that help in database development.

## 1. Command Window

The Command Window is the main working area of FoxPro.

1. It is used to type and execute commands directly.
2. Commands are executed immediately after pressing Enter.
3. It is mainly used by programmers.

### Example:

USE BCA_Student
LIST

This opens the student table and displays records.

## 2. Menu Bar

The Menu Bar is located at the top of the FoxPro screen.

It contains different menus such as:

1. File
2. Edit
3. View
4. Program
5. Database
6. Tools
7. Window
8. Help

These menus provide options to create tables, reports, forms, and manage files.

### 3. Toolbar

The Toolbar contains shortcut icons for quick operations like:

1. Open file
2. Save
3. Print
4. Run program

It helps in fast access without typing commands.

## 4. Project Manager

Project Manager is used to manage all files of a project in one place.

It contains:

1. Databases
2. Tables
3. Queries
4. Forms
5. Reports
6. Programs

It helps in organizing application development.

## 5. Data Session / Work Area

FoxPro allows multiple tables to be opened at the same time.

Each open table occupies a work area.

Command used:

USE BCA_Student IN 1
USE marks IN 2

This allows working with multiple tables simultaneously.

## 6. Modify Structure Window

Used to:

1. Add new fields
2. Delete fields
3. Change field type or width

Command:

MODIFY STRUCTURE

## 7. Browse Window

Used to view and edit records in tabular form.

Command:

BROWSE

## 8. Status Bar

The Status Bar shows:

1. Current record number
2. Total records
3. Insert/Overwrite mode
4. System messages

# Creating and Viewing Database

In FoxPro, a database is created to store and manage related tables. The process mainly includes creating a database, creating tables inside it, and viewing the stored data.

## 1. Creating a Database

A database file in Visual FoxPro has the extension .DBC**.**

## Command:

CREATE DATABASE College

This command creates a database named:

school.dbc

After creating the database, you can add tables to it.

To open an existing database:

OPEN DATABASE College

## 2. Creating a Table in the Database

Tables store actual data in rows and columns. Table files have the extension .DBF**.**

## Command:

```
CREATE TABLE BCA_Student ;
 (Roll No(5), ;
  Name C(20), ;
  Class C(10), ;
  Marks N(5))
```
This creates a table named:
BCA_Student.dbf

## 3. Viewing Table Structure

To see the structure of a table:

DISPLAY STRUCTURE

or

MODIFY STRUCTURE

This shows field names, data types, and widths.

## 4. Adding Records (Inserting Data)

To enter data:

APPEND

Or directly:

INSERT INTO BCA_Student VALUES (1, "Azam", "BCA 1$^{st}$ ", 85)

## 5. Viewing Data in the Table

To view records stored in the table:

**a) Display all records**

LIST

**b) View in tabular form**

BROWSE

**c) Display specific fields**

DISPLAY Roll, Name

## 6. Closing the Table

USE

This closes the currently open table.