Editing Table Structure in FoxPro

Editing table structure means modifying the design of an existing table, such as adding new fields, deleting fields, or changing field type, width, or name.

In FoxPro, the table structure can be modified using the MODIFY STRUCTURE command.

Command:

MODIFY STRUCTURE

Example:

Suppose we have a table named BCA_Student with the following structure:

Field Name	Type	Width
Roll	Numeric	5
Name	Character	20
Marks	Numeric	5

Now, if we want to:

1. Add a new field → Grade (Character, 2)
2. Change width of Name field from 20 to 30

We use:

USE BCA_Student

MODIFY STRUCTURE

After modification, the new structure becomes:

Field Name	Type	Width
Roll	Numeric	5
Name	Character	30
Marks	Numeric	5
Grade	Character	2

Important Points:

1. Structure editing affects the table design permanently.
2. Backup should be taken before modifying structure.
3. Data may be lost if fields are deleted.

Deleting Table Structure in FoxPro

Deleting table structure means removing the entire table including its design and all records from the database.

Command:

DELETE FILE BCA_Student.dbf

OR

ERASE BCA_Student.dbf

Example:

If we want to completely remove the BCA_Student table:

```
CLOSE DATABASES
ERASE BCA_Student.DBF
```

This will delete:

1. Table structure
2. All records stored in it

Editing Table Contents in FoxPro

Editing table contents means modifying the existing records (data) inside the table without changing the structure.

Commands Used:

1. BROWSE
2. EDIT
3. REPLACE

Example:

Open the table:

```
USE BCA_Student
BROWSE
```

To change marks of Roll number 1:

```
LOCATE FOR Roll = 1
REPLACE Marks WITH 85
```

Deleting Table Contents in FoxPro

Deleting table contents means removing records from the table without deleting the table structure.

Commands Used:

1. DELETE
2. DELETE ALL
3. PACK

Example 1: Delete a specific record

```
DELETE FOR Roll = 1
```

Note: This only marks the record for deletion.

To permanently remove:

PACK

Example 2: Delete all records

DELETE ALL
PACK

Important Points:

1. DELETE only marks records.
2. PACK permanently removes deleted records.
3. Structure remains safe.