

List

The screenshot shows the ANSYS Mechanical APDL interface with the **List** menu open. The **Status** sub-menu is selected, and the **Global Status** option is highlighted. The **Model Query Picker** dialog box is also open, showing various options for querying the model.

Annotations:

- Global Status:** Basic information about the model (workspace, geometry, no. of nodes, no. of finite elements)
- Picked Entities +:** Information about applied boundary conditions (constraints, loads)
- Loads:** Information about existing coordinate systems etc.
- Model Query Picker:**
 - Query Item:** Attributes
 - On Entities:** NONE
 - List Option:** DSYS coord 0
 - Example Output:**

```
Count = 0
Maximum = 0
Minimum = 1
Node No. =
```
 - Buttons:** OK (labeled "Accept"), Apply, Reset, Cancel, Pick All, Help

Comment

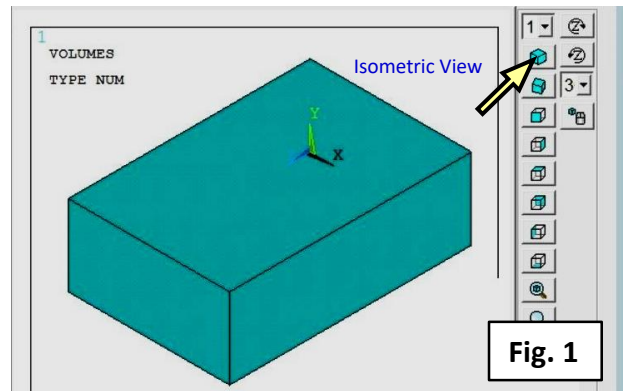
All information from the List menu may be saved as a text file.

Clear and start a new database


Utility Menu > File > Clear & Start New > Do not Read File > OK > CLEAR ... EXECUTED? > Yes

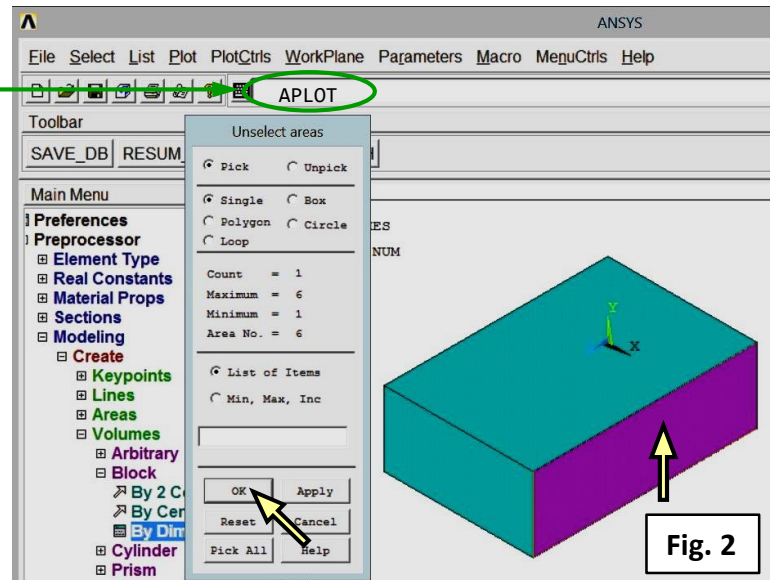
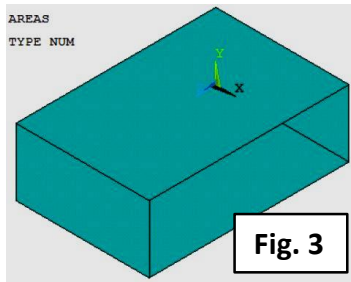
Create a block

Main Menu > Preprocessor > Modeling > Create > Volumes > Block > By Dimensions
 X1, X2 → 0, 100
 Y1, Y2 → 0, 50
 Z1, Z2 → 0, 150 → OK
 Set an isometric view (Fig. 1).



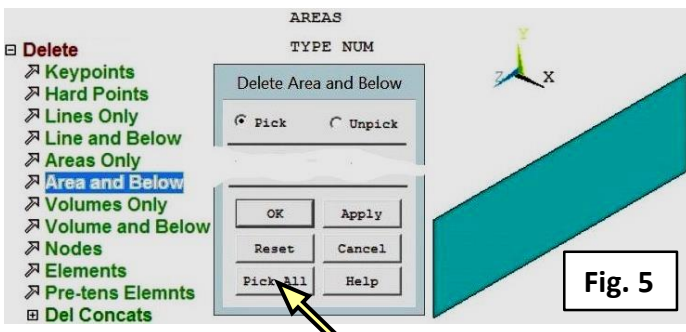
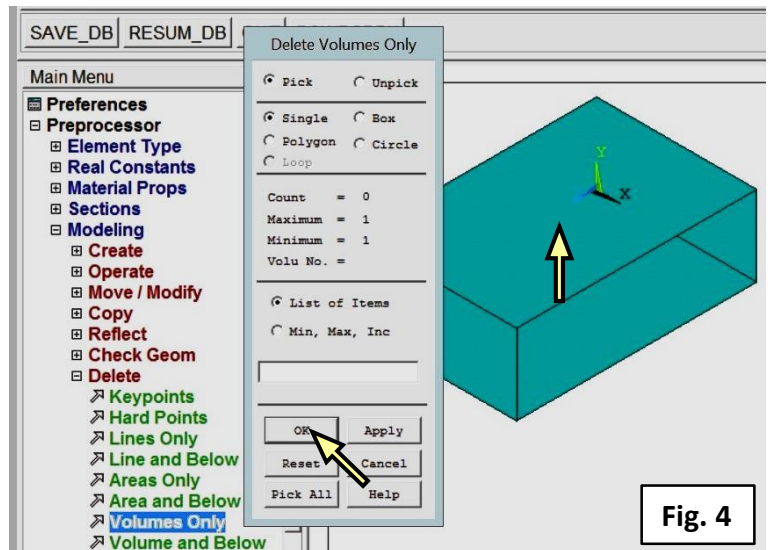
Unselect one area


Utility Menu > Select > Entities...> Areas > By Num/Pick > Unselect → OK
 Pick the area shown in Fig. 2 → OK
 Type APLOT in a Command Prompt,  (Fig. 2, 3)



Delete the block and 5 areas

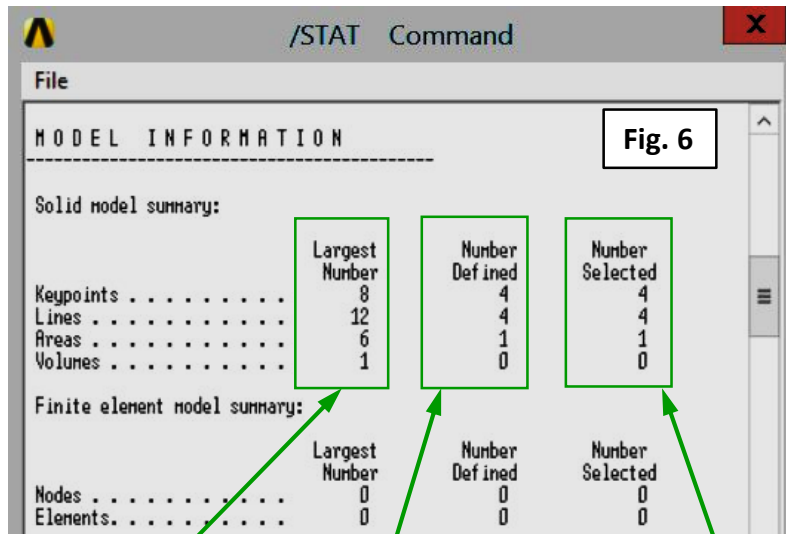
Main Menu > Preprocessor > Modeling > Delete > Volumes Only
 Pick the block → OK (Fig. 4)
 Main Menu > Preprocessor > Modeling > Delete > Areas and Below > Pick All (Fig. 5)



Utility Menu > Select > Everything
 Type APLOT in a Command Prompt,  (Fig. 5)

Check status

Utility Menu > List > Status > Global Status (Fig. 6)



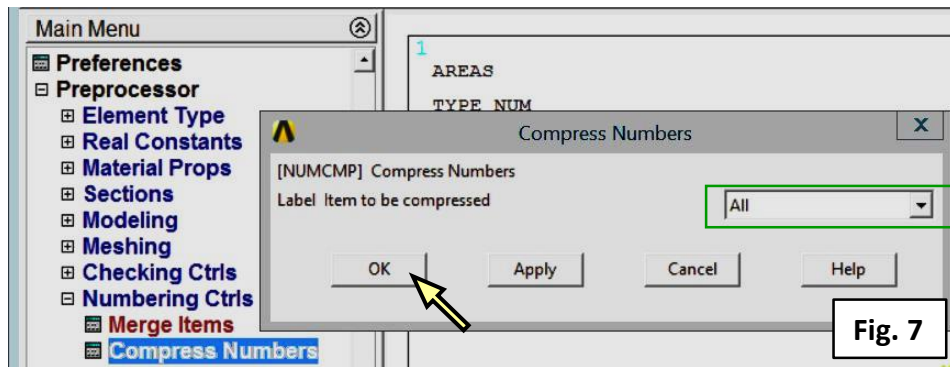
deleted block consisted of 1 volume, 6 areas, 12 edges and 8 corner points

remaining area has 4 edges and 4 corner points

the entire model is selected (Select > Everything was used), so Number Defined = Number Selected

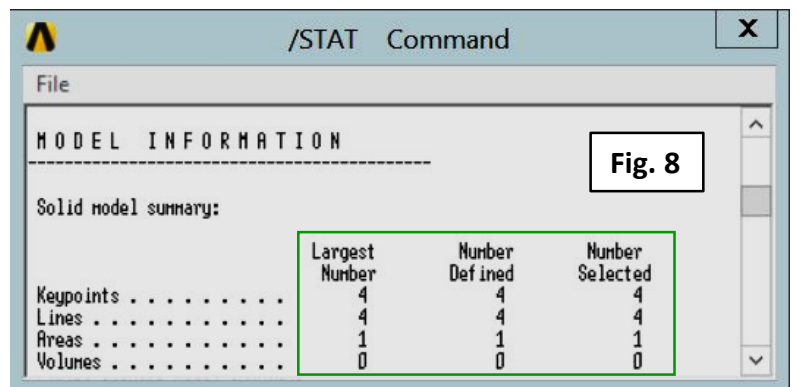
Compress numbers

Main Menu > Preprocessor > Numbering Ctrl's > Compress Numbers > All → OK (Fig. 7)



Check the status after compression of numbers

Utility Menu > List > Status > Global Status (compare numbers shown in Fig. 6 and Fig. 8)



Comment

Everything in ANSYS Mechanical ADPL has a number. Numbers may change after compression or the use of Boolean operations (Main Menu > Preprocessor > Operate > Booleans ... Add, Intersect, Glue, Overlap etc.)