

Structure of the Abaqus ODB (Output Database)

As an example, we access the **rootAssembly** and extract data of **element connectivity** and **node coordinates**.

Structure of the problem

```
rootAssembly
├── part
│   ├── section
│   │   ├── material
│   │   │   ├── elastic
│   │   │   │   ├── Young's Modulus
│   │   │   │   ├── Poisson's Ratio
│   │   │   │   └── ...
│   │   │   └── ...
│   │   └── ...
│   └── ...
└── ...
```

Index view of the rootAssembly

```
if name == 'rootAssembly':
    'element' = 0
    'elementSet' = ['ALL ELEMENTS', 'element object',
                   'firstInscribedElementSet', 'element object',
                   'firstInscribedSet', 'element object']
    'element' = 0
    'elementSet' = ['ALL ELEMENTS', 'element object',
                   'firstInscribedElementSet', 'element object',
                   'firstInscribedSet', 'element object']
    'node' = 0
    'nodeSet' = ['ALL NODES', 'node object',
                'firstInscribedNodeSet', 'node object',
                'firstInscribedSet', 'node object']
    'edge' = 0
    'edgeSet' = 0
    'faceSet' = 0
    'volumeSet' = 0
```

The **Object** objects are like arrays which can be accessed like we access normal arrays.



Text in orange represents **data**



Text in green represents **data we access as examples**

Abaqus N Ar Material Database

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