**Classification of Index Structures (Based on Lecture Notes)**

According to the lecture slides, index structures are classified based on several key aspects:

1. **Clustering**
   * **Tuple Clustering**: Stores tuples that are frequently accessed together on the same physical page.
   * **Page Clustering**: Stores related pages close together in secondary storage, allowing prefetching.
2. **Dimensionality**
   * Defines how many attributes (dimensions) of the underlying relation are used to calculate the index key.
3. **Symmetry**
   * **Symmetrical Index Structure**: Performance is independent of the order of index attributes.
   * **Asymmetrical Index Structure**: Performance depends on the order of index attributes.
4. **Tuple References**
   * Defines the type of tuple references stored in the index structure.
5. **Dynamic Behavior**
   * Indicates the effort required to update the index structure for insert, update, and delete operations.
   * Addresses the problem of "degeneration" in index structures.