

## cypher indexing common property on all nodes

1 post by 1 author 



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Note: I have also asked this question in stackoverflow, but I want a **second opinion**. Post is here: <http://stackoverflow.com/questions/29353718/cypher-indexing-common-property-on-all-nodes/>

As per new indexing rules, the `auto_index` will go away in future and its expected to create indexes using `cypher`. According to this new way, to index a node property, you **MUST** provide a Node Label.

**I have a 'nodeId' property present on all types of Node Labels - User, Employee, Bank, Car, etc.** I used to auto-index this property to retrieve any type of node if its nodeId is known. Please note that since auto-index did not require me to give a Node Label, it was possible for me to do what I did.

```
ReadableIndex<Node> readableIndex = this.graphDatabaseService.index().getNodeAut  
readableIndex.get("nodeId", "0").getSingle();
```

But with new style, I have to create index on nodeId property for each and every Node Label. So I have to do this:

```
create index on :User(nodeId)  
create index on :Employee(nodeId)  
...
```

Moreover, my method `getNodeById(String nodeId)` is useless now because this cypher query IMHO will not be able to use the index anymore since I am not passing any node label.

```
match (node) where node.nodeId = {nodeId} return node;
```

Since the whole point of my `getNodeById()` method was to be generic across all nodes, I cannot give this cypher query a node label. So what should I do here. My 2 questions are:

- How do I tell neo4j via cypher to index on all node labels
- How do I write a cypher query which uses index not based on node label, but based on node property.

### Note:

- It is essential for me to use cypher because I am using neo4j-jdbc and they have no method to create auto-index or access the auto-indexer (atleast not that I know of).

- Some might suggest me to change the neo4j.properties to enable auto-indexing there, but I dont like changing configuration files. I want to do it in my program. Anyway, that would have only solved the first issue. Second issue is still there.
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