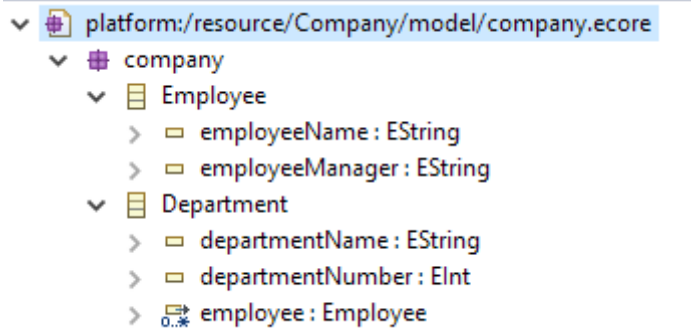


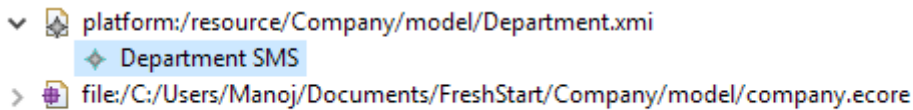
Metamodel:



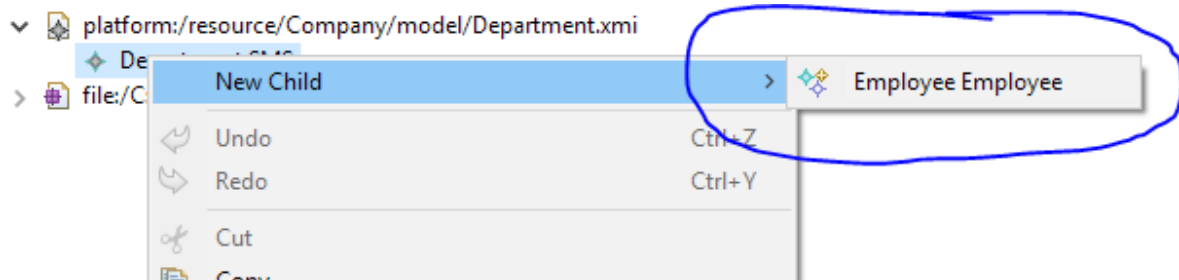
Ecore model:



Department model instance created programmatically:



Now I want to create this programmatically.



Here is my code:

```
public class DynamicTest extends TestCase
{
    public void testCreateModel() throws IOException {
        ResourceSet rs = new ResourceSetImpl();
        rs.getResourceFactoryRegistry().getExtensionToFactoryMap().put("ecore",
            new XMIResourceFactoryImpl());
        Resource res = rs.createResource( URI.createFileURI(
```

```

"C:/Users/Manoj/Documents/FreshStart/Company/model/company.ecore" ));
res.load(null);
EPackage metapackage = (EPackage)res.getContents().get(0);
System.out.println("meta Package "+metapackage.getName());
EFactory employeeFactoryInstance = metapackage.getEFactoryInstance();
EClass employeeClass = (EClass)metapackage.getEClassifier("Employee");
EObject employeeObject = employeeFactoryInstance.create(employeeClass);
EAttribute employeeName = employeeClass.getEAllAttributes().get(0);
EAttribute employeeManager = employeeClass.getEAllAttributes().get(1);
employeeObject.eSet(employeeName, "Manoj");
employeeObject.eSet(employeeManager, "Albert");
String empName = (String)employeeObject.eGet(employeeName);
String empManager = (String)employeeObject.eGet(employeeManager);
ResourceSet resourceSet = new ResourceSetImpl();
resourceSet.getPackageRegistry().put(metapackage.getNsURI(),
metapackage);

ResourceSet.getResourceFactoryRegistry().getExtensionToFactoryMap().put
("*", new XMIResourceFactoryImpl());
Resource resource =
ResourceSet.createResource(URI.createURI("./model/Employee.xml"));
resource.getContents().add(employeeObject);
Map options = new HashMap();
options.put(XMIResource.OPTION_SCHEMA_LOCATION, Boolean.TRUE);
try
{
    resource.save(options);
} catch (IOException e) {
    // TODO: handle exception
    e.printStackTrace();
}
EPackage metapackage1 = (EPackage)res.getContents().get(0);
EFactory departmentFactoryInstance = metapackage1.getEFactoryInstance();
EClass departmentClass =
(EClass)metapackage1.getEClassifier("Department");
EObject departmentObject =
departmentFactoryInstance.create(departmentClass);
EAttribute departmentName = departmentClass.getEAllAttributes().get(0);
EAttribute departmentNumber =
departmentClass.getEAllAttributes().get(1);
EObject depRef = employeeClass.eContainmentFeature().eContents().get(0);
departmentObject.eSet(departmentName, "SMS");
departmentObject.eSet(departmentNumber, 101);
String depName = (String)departmentObject.eGet(departmentName);
Integer depNumber = (Integer)departmentObject.eGet(departmentNumber);
ResourceSet resSet = new ResourceSetImpl();
resSet.getPackageRegistry().put(metapackage1.getNsURI(), metapackage1);
resSet.getResourceFactoryRegistry().getExtensionToFactoryMap().put("*",
new XMIResourceFactoryImpl());
Resource res1 =
resSet.createResource(URI.createURI("./model/Department.xml"));
res1.getContents().add(departmentObject);
Map options1 = new HashMap();
options1.put(XMIResource.OPTION_SCHEMA_LOCATION, Boolean.TRUE);
try
{
    res1.save(options1);
} catch (IOException e) {
    // TODO: handle exception
    e.printStackTrace();
}
}

```

