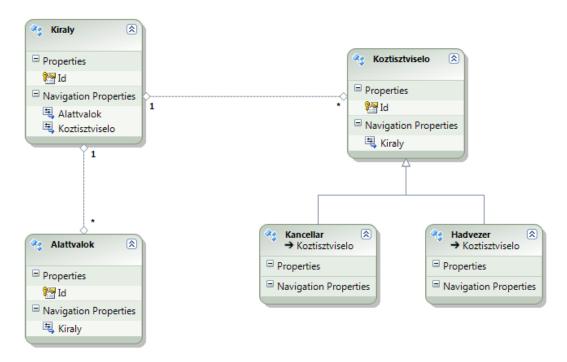
New Item... from VS:

Creates an empty model as a starting point for (visually) **designing a conceptual model** from the toolbox. <u>Classes are generated from the model when the project is compiled</u>. You can specify a database connection later to *map the conceptual model to the storage model*.



Aprócska EF teszt entitások és kapcsolataik

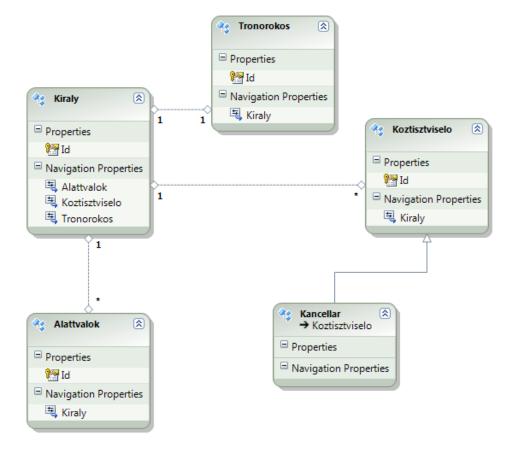
```
<?xml version="1.0" encoding="utf-8"?>
<edmx:Edmx Version="2.0" xmlns:edmx="http://schemas.microsoft.com/ado/2008/10/edmx">
  <!-- EF Runtime content -->
   <edmx:Runtime>
     <!-- SSDL content -->
     <edmx:StorageModels>
        <Schema xmlns="http://schemas.microsoft.com/ado/2009/02/edm/ssdl" Namespace="Model1.Store"</p>
Alias="Self" Provider="System.Data.SqlClient" ProviderManifestToken="2005">
          <EntityContainer Name="ModellTargetContainer" >
          </EntityContainer>
        </Schema>
     </edmx:StorageModels>
     <!-- CSDL content -
     <edmx:ConceptualModels>
        <Schema xmlns="http://schemas.microsoft.com/ado/2008/09/edm"</pre>
xmlns:cg="http://schemas.microsoft.com/ado/2006/04/codegeneration"
xmlns:store="http://schemas.microsoft.com/ado/2007/12/edm/EntityStoreSchemaGenerator" Namespace="Model1"
Alias="Self" xmlns:annotation="http://schemas.microsoft.com/ado/2009/02/edm/annotation">
          <EntityContainer Name="ModellContainer" annotation:LazyLoadingEnabled="true">
             <EntitySet Name="KiralySet" EntityType="Model1.Kiraly" />

             </AssociationSet>
             <EntitySet Name="KoztisztviseloSet" EntityType="Model1.Koztisztviselo" />
             <AssociationSet Name="KiralyKoztisztviselo" Association="Modell.KiralyKoztisztviselo">
    <End Role="Kiraly" EntitySet="KiralySet" />
    <End Role="Koztisztviselo" EntitySet="KoztisztviseloSet" />
             </AssociationSet>
          </EntityContainer>
          <EntityType Name="Kiraly">
               <PropertyRef Name="Id" />
             <Property Type="Int32" Name="Id" Nullable="false" annotation:StoreGeneratedPattern="Identity" />
             <NavigationProperty Name="Alattvalok" Relationship="Modell.KiralyAlattvalok" FromRole="Kiraly"</pre>
```

```
</EntityType>
       <EntityType Name="Alattvalok">
         <Key>
           <PropertyRef Name="Id" />
</EntityType>
       <Association Name="KiralyAlattvalok">
         <End Type="Model1.Kiraly" Role="Kiraly" Multiplicity="1" />
         <End Type="Model1.Alattvalok" Role="Alattvalok" Multiplicity="*" />
       </Association>
       <EntityType Name="Koztisztviselo">
         <Key>
           <PropertyRef Name="Id" />
</EntityType>
       <EntityType Name="Kancellar" BaseType="Model1.Koztisztviselo">
       </EntityType>
       <EntityType Name="Hadvezer" BaseType="Model1.Koztisztviselo">
       </EntityType>
       <Association Name="KiralyKoztisztviselo">
         <End Type="Model1.Kiraly" Role="Kiraly" Multiplicity="1" />
         <End Type="Model1.Koztisztviselo" Role="Koztisztviselo" Multiplicity="*" />
       </Association>
     </Schema>
    </edmx:ConceptualModels>
    <!-- C-S mapping content -->
    <edmx:Mappings>
      <Mapping xmlns="http://schemas.microsoft.com/ado/2008/09/mapping/cs" Space="C-S">
       <Alias Key="Model" Value="Model1" />
<Alias Key="Target" Value="Model1.Store" />
<EntityContainerMapping CdmEntityContainer="Model1Container"
StorageEntityContainer="Model1TargetContainer">
        </EntityContainerMapping>
     </Mapping>
    </edmx:Mappings>
  </edmx:Runtime>
  <!-- EF Designer content (DO NOT EDIT MANUALLY BELOW HERE) -->
  <edmx:Designer xmlns="http://schemas.microsoft.com/ado/2008/10/edmx">
    <edmx:Connection>
      <DesignerInfoPropertySet>
       <DesignerProperty Name="MetadataArtifactProcessing" Value="EmbedInOutputAssembly" />
     </DesignerInfoPropertySet>
    </edmx:Connection>
    <edmx:Options>
      <DesignerInfoPropertySet>
       <DesignerProperty Name="ValidateOnBuild" Value="true" />
       <DesignerProperty Name="EnablePluralization" Value="False" />
      </DesignerInfoPropertySet>
    </edmx:Options>
    <!-- Diagram content (shape and connector positions) -->
    <edmx:Diagrams>
(sok elhelyezés infó, grafikus megjelenítéshez)
    </edmx:Diagrams>
  </edmx:Designer>
</edmx:Edmx>
```

Generált XML-based edmx fájl (ezt kell generálnunk)

- <u>Conceptual schema definition language (CSDL)</u> defines the conceptual model. CSDL is the Entity Framework's implementation of the Entity Data Model. The file extension is .csdl.
- <u>Store schema definition language (SSDL)</u> defines the storage model, which is also called the logical model. The file extension is .ssdl.
- <u>Mapping specification language</u> (MSL) defines the mappings between the storage and conceptual models. The file extension is .msl.



Módosított entitások (nincs hadvezér, de megjelent a trónörökös)

- i. Save *.edmx -> designer.cs módosul.
- ii. Build project: *.csdl *.ssdl *.msl módosul.

+ <edmx:Mappings> </edmx:Runtime>

Az EDMX felépítése

```
<?xml version="1.0" encoding="UTF-8"?>
<edmx:Edmx xmlns:edmx="http://schemas.microsoft.com/ado/2008/10/edmx" Version="2.0">
      <!-- EF Runtime content -->
 + <edmx:Runtime>
      <!-- EF Designer content (DO NOT EDIT MANUALLY BELOW HERE) -->
   <edmx:Designer xmlns="http://schemas.microsoft.com/ado/2008/10/edmx">
     + <edmx:Connection>
     + <edmx:Options>
          <!-- Diagram content (shape and connector positions) -->
     + <edmx:Diagrams>
   </edmx:Designer>
</edmx:Edmx>
                              Runtime és design content
              <!-- EF Runtime content -->
         - <edmx:Runtime>
                  <!-- SSDL content -->
             + <edmx:StorageModels>
                  <!-- CSDL content -->
             + <edmx:ConceptualModels>
                  <!-- C-S mapping content -->
```

Runtime content felépítése (SSDL-CSDL-mapping)

A lényeg a CSDL-ben van (EF Entity Data Model, conceptual schema layer), íme:

```
- <edmx:ConceptualModels>
        "Schema Alias="Self" Namespace="Model1" xmlns="http://schemas.microsoft.com/ado/2008/09/edm" xmlns:annotation="http://schemas.microsoft.com/ado/2009/02/edm/annotation"
        + <AssociationSet Name="KiralyKoztisztviselo" Association="Model1.KiralyKoztisztviselo">
              </EntityContainer>
              <EntityType Name="Kiraly">
                 + <Kev>
                   <Property Name="Id" annotation:StoreGeneratedPattern="Identity" Nullable="false" Type="Int32"/>
<NavigationProperty Name="Alattvalok" ToRole="Alattvalok" FromRole="Kiraly" Relationship="Model1.KiralyAlattvalok"/>
<NavigationProperty Name="Koztisztviselo" ToRole="Koztisztviselo" FromRole="Kiraly" Relationship="Model1.KiralyAlattvalok"/>
<NavigationProperty Name="Koztisztviselo" ToRole="Koztisztviselo" FromRole="Kiraly" Relationship="Model1.KiralyKoztisztviselo"/>
              </EntityType>
              <EntityType Name="Alattvalok">
                 + < Key >
                   <Property Name="Id" annotation:StoreGeneratedPattern="Identity" Nullable="false" Type="Int32"/>
<NavigationProperty Name="Kiraly" ToRole="Kiraly" FromRole="Alattvalok" Relationship="Model1.KiralyAlattvalok"/>
              <a href="KiralyAlattvalok"></a>
                   <End Role="Kiraly" Type="Model1.Kiraly" Multiplicity="1"/>
<End Role="Alattvalok" Type="Model1.Alattvalok" Multiplicity="*"/>
              </Association>
              <EntityType Name="Koztisztviselo">
                 + <Key>
                   <a href="Property Name="Id" annotation:StoreGeneratedPattern="Identity" Nullable="false" Type="Int32"/></a>
<NavigationProperty Name="Kiraly" ToRole="Kiraly" FromRole="Koztisztviselo" Relationship="Model1.KiralyKoztisztviselo"/>
              </EntityType>

<
               </Association>
         </Schema>
   </edmx:ConceptualModels>
```

A **CSDL** réteg, az entitások, a set-ek és a kapcsolatok

Példa egy új elemre:

A dizájn tartalom pedig így néz ki:

A generálást (módosításokat) az EDMX-ben kell elvégezni. Empty project-be betöltve generálás után létre is jön a 3 speciális fájl, a *.cs stb. és lehet csinálni belőle az adatbázist stb.