SOFTWARE GEMS

1 All *Codes in the Country cluster are ISO or ANSI/FIPS Standard codes.

2 CountryCode & LanguageCode:
- in PersonBirthCountryCode & PersonFull, it is that of birth
- in Agent, it is the operative value, relevant to Concept & Movie.

3 PersonName is made up:
a. in order to allow a Person with minimum identifying attributes (refer Constraints), and
b. in order to allow a common Key for AgentName. It remains a breach of 1NF and a duplicate column.

4 Differentiator (all instances) is a meaningful value, supplied by the user, not the system.
- PersonMinimum: if the middle name or initial is known, it is preferred.

Person_V

PersonName	
LastName	
FirstName	
MiddleName	[]
Differentiator	[]
BirthDate	[Unknown]
BirthCountryCode	[Unknown]
BirthStateCode	[Unknown]
BirthCountyCode	[Unknown]
BirthTown	[Unknown]
BirthLanguageCode	[Unknown]

5 Italic means a derived column, normally shown in a View, it is not stored. Here, it is supplied by a recursive Function:
dbo.Concept_VariantLineage_fn(PK)

6 Whereas MediumType & FormatType are physical (sensible) classifications, EditionType is a Logical (intelligible) classification.

Constraint

- Collective_IsExclusive_ck
  CHECK dbo.Agent_IsSubtype_fn(PK, "L") = 1
- ComponentConcept_IsValid_ck
  CHECK -- Movie.ProductionDate > Concept.ConceptDate
- ComponentConcept_IsExclusive_ck
  CHECK dbo.Component_IsSubtype_fn(PK, "C") = 1
- ComponentEdition_IsEValid_ck
  CHECK -- Movie.ProductionDate > Edition.Edition
- ComponentEdition_IsExclusive_ck
  CHECK dbo.Component_IsSubtype_fn(PK, "E") = 1
- ComponentMovie_IsValid_ck
  CHECK -- Component.PK != Movie.FK
  CHECK -- PK.ProductionDate > FK.ProductionDate
- ComponentMovie_IsExclusive_ck
  CHECK dbo.Component_IsSubtype_fn(PK, "M") = 1
- ConceptDerivative_IsValid_ck
  CHECK -- Derivative.ConceptDate > Derived.ConceptDate
- ConceptDerivative_LineageIsValid_ck
  CHECK -- PK NOT IN dbo.ConceptDerivative_Lineage_fn(PK)
- ConceptKeywordDirect_IsExclusive_ck
  CHECK dbo.ConceptKeyword_IsSubtype_fn(PK, "D") = 1
- ConceptKeywordTitle_IsExclusive_ck
  CHECK dbo.ConceptKeyword_IsSubtype_fn(PK, "T") = 1
- Concept_VariantIsValid_ck
  CHECK -- Variant.ConceptDate > Varied.ConceptDate
- Concept_VariantLineageIsValid_ck
  CHECK -- PK NOT IN dbo.Concept_VariantLineage_fn(PK)
- Corporation_IsExclusive_ck
  CHECK dbo.Agent_IsSubtype_fn(PK, "C") = 1
- Edition_IsEValid_ck
  CHECK -- EditionDate > Movie.ProductionDate
- Instance_IsValid_ck
  CHECK -- AcquisitionDate > EditionDate
- KeywordExcluded_IsExclusive_ck
  CHECK dbo.Keyword_IsSubtype_fn(PK, "E") = 1
- KeywordPermitted_IsExclusive_ck
  CHECK dbo.Keyword_IsSubtype_fn(PK, "P") = 1
- Movie_IsValid_ck
  CHECK -- ProductionDate > Concept.ConceptDate
- Movie_VariantIsValid_ck
  CHECK -- Variant.ProductionDate > Varied.ProductionDate
- Movie_VariantLineageIsValid_ck
  CHECK -- PK NOT IN dbo.Movie_VariantLineage_fn(PK)
- MovieKeywordDirect_IsExclusive_ck
  CHECK dbo.MovieKeyword_IsSubtype_fn(PK, "D") = 1
- MovieKeywordTitle_IsExclusive_ck
  CHECK dbo.MovieKeyword_IsSubtype_fn(PK, "T") = 1
- Movie_TitleIsValid_ck
  CHECK TitleStatus IN ("Original", "Preferred", "Alternate")
- Person_IsExclusive_ck
  CHECK dbo.Agent_IsSubtype_fn(PK, "P") = 1
- PersonFull_IsExclusive_ck
  CHECK dbo.Person_IsSubtype_fn(PK, "F") = 1
- PersonFull_NameIsValid_ck
  CHECK PersonName = LastName + ", " + FirstName + " " + MidddleName
- PersonMinimum_IsExclusive_ck
  CHECK dbo.Person_IsSubtype_fn(PK, "M") = 1
- PersonMinimum_NameIsValid_ck
  CHECK PersonName = LastName + ", " + FirstName + " " + Diffentiator

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