

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

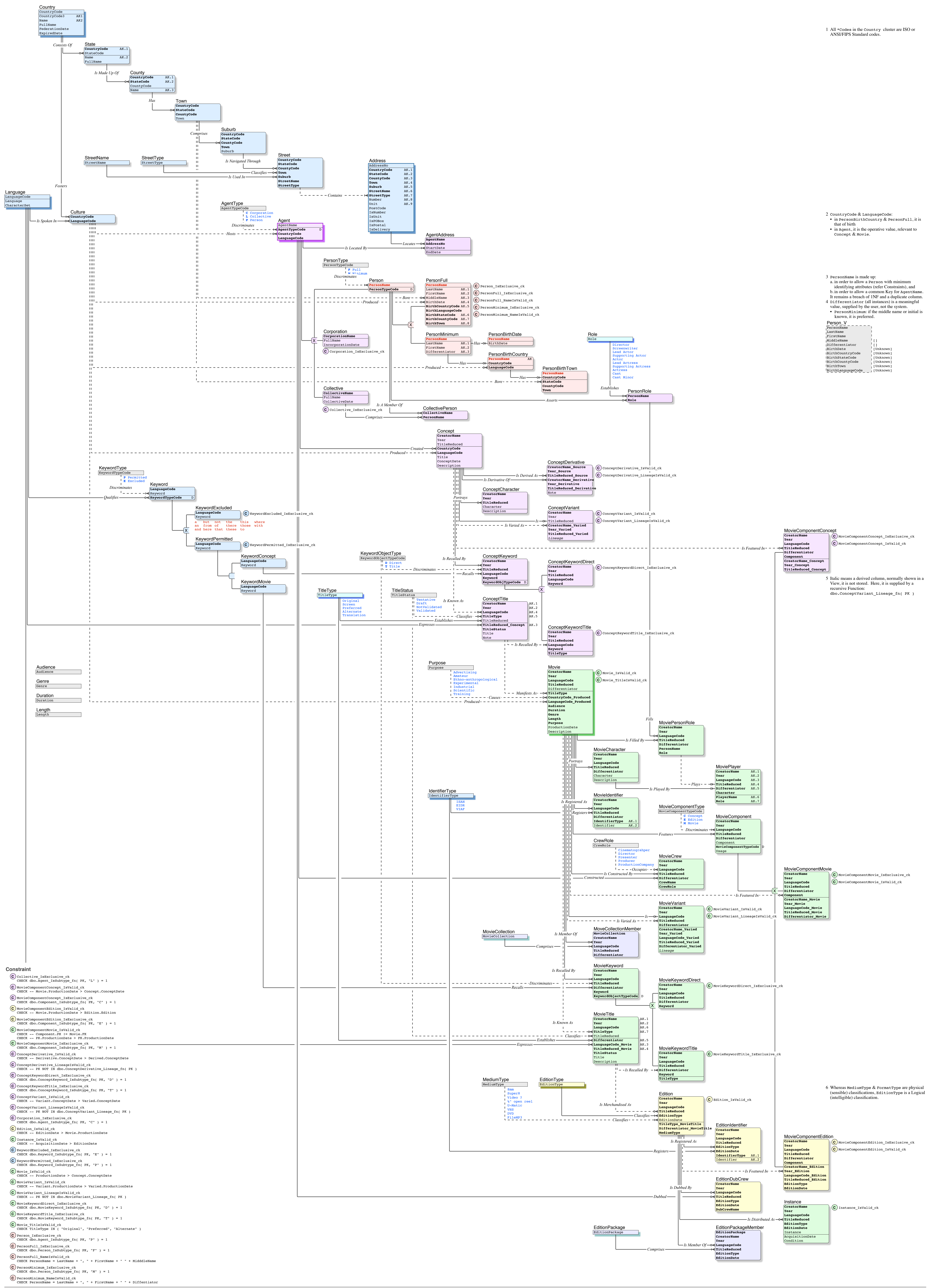
2 CountryCode & LanguageCode:  
• in PersonBirthCountry & PersonFull, it is that of birth  
• in Agent, it is the operative value, relevant to Concept & Movie.

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  
 Firstname  
 Middlename  
 Differentiator  
 Birthdate  
 BirthCountryCode  
 BirthStateCode  
 BirthCountyCode  
 BirthTown  
 BirthLanguageCode  
}

5 Italic means a derived column, normally shown in a View, it is not stored. Here, it is supplied by a recursive Function:  
dbo.ConceptVariant\_Lineage\_fn (FK)

6 Where: MediumType & FormatType are physical (sensu) classifications, EditionType is a Logical (intelligible) classification.



- Constraint**
- Collective\_IsExclusive\_ck  
CHECK dbo.Agent\_IsSubtype\_fn (FK, "I") = 1
  - MovieComponentConcept\_IsValid\_ck  
CHECK -- Movie.ProductionDate > Concept.ConceptDate
  - MovieComponentConcept\_IsExclusive\_ck  
CHECK dbo.Component\_IsSubtype\_fn (FK, "C") = 1
  - MovieComponentEdition\_IsValid\_ck  
CHECK -- Movie.ProductionDate > Edition.EditionDate
  - MovieComponentEdition\_IsExclusive\_ck  
CHECK -- Component\_PK != Movie.PK
  - MovieComponentMovie\_IsValid\_ck  
CHECK -- PK.ProductionDate > PK.ProductionDate
  - MovieComponentMovie\_IsExclusive\_ck  
CHECK dbo.Component\_IsSubtype\_fn (FK, "M") = 1
  - ConceptDerivative\_IsValid\_ck  
CHECK -- PK NOT IN dbo.ConceptDerivative\_Lineage\_fn (FK)
  - ConceptDerivative\_LineageIsValid\_ck  
CHECK -- FK NOT IN dbo.ConceptDerivative\_Lineage\_fn (FK)
  - ConceptKeywordDirect\_IsExclusive\_ck  
CHECK -- FK NOT IN dbo.ConceptKeywordDirect\_IsExclusive\_ck
  - ConceptKeywordTitle\_IsExclusive\_ck  
CHECK -- FK NOT IN dbo.ConceptKeywordTitle\_IsExclusive\_ck
  - ConceptVariant\_IsValid\_ck  
CHECK -- Variant.ConceptDate > Varied.ConceptDate
  - ConceptVariant\_LineageIsValid\_ck  
CHECK -- FK NOT IN dbo.ConceptVariant\_Lineage\_fn (FK)
  - Corporation\_IsExclusive\_ck  
CHECK dbo.Agent\_IsSubtype\_fn (FK, "C") = 1
  - Edition\_IsValid\_ck  
CHECK -- EditionDate > Movie.ProductionDate
  - Instance\_IsValid\_ck  
CHECK -- AcquisitionDate > EditionDate
  - KeywordExcluded\_IsExclusive\_ck  
CHECK dbo.Keyword\_IsSubtype\_fn (FK, "E") = 1
  - KeywordPermitted\_IsExclusive\_ck  
CHECK dbo.Keyword\_IsSubtype\_fn (FK, "P") = 1
  - Movie\_IsValid\_ck  
CHECK -- ProductionDate > Concept.ConceptDate
  - MovieVariant\_IsValid\_ck  
CHECK -- Variant.ProductionDate > Varied.ProductionDate
  - MovieVariant\_LineageIsValid\_ck  
CHECK -- FK NOT IN dbo.MovieVariant\_Lineage\_fn (FK)
  - MovieKeywordDirect\_IsExclusive\_ck  
CHECK -- FK NOT IN dbo.MovieKeywordDirect\_IsExclusive\_ck
  - MovieKeywordTitle\_IsExclusive\_ck  
CHECK -- FK NOT IN dbo.MovieKeywordTitle\_IsExclusive\_ck
  - MovieTitle\_IsValid\_ck  
CHECK -- PK.ProductionDate > PK.ProductionDate
  - Person\_IsExclusive\_ck  
CHECK -- PK.ProductionDate > PK.ProductionDate
  - PersonFull\_IsExclusive\_ck  
CHECK -- PK.ProductionDate > PK.ProductionDate
  - PersonMinimum\_IsExclusive\_ck  
CHECK -- PK.ProductionDate > PK.ProductionDate
  - PersonMinimum\_IsValid\_ck  
CHECK -- PK.ProductionDate > PK.ProductionDate