

UP-MaP: User Profiles Management Platform

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Example of user profile :

```

PROFILE MyProfile
DIMENSION Domain of Interest
ENTITY Paper
  ATTRIBUTES { title : string
               author : string
               price : integer
               conference : string }

ENTITY Book
  ATTRIBUTES { title : string
               author : string
               editor : string
               price : integer }

CONSTRAINTS {
  C1 : Paper.conference ∈ {'VLDB', 'SIGMOD'}, 0.8
  C2 : Book.price < 50, 0.7 }

GROUND PREFERENCES {
  P1 : MIN(Paper.price)
  P2 : Paper.author = ['Luc H.' >> 'John K.' >> 'Jan C.']
  P3 : Book.author = ['John M.' >> 'Bill S.']}

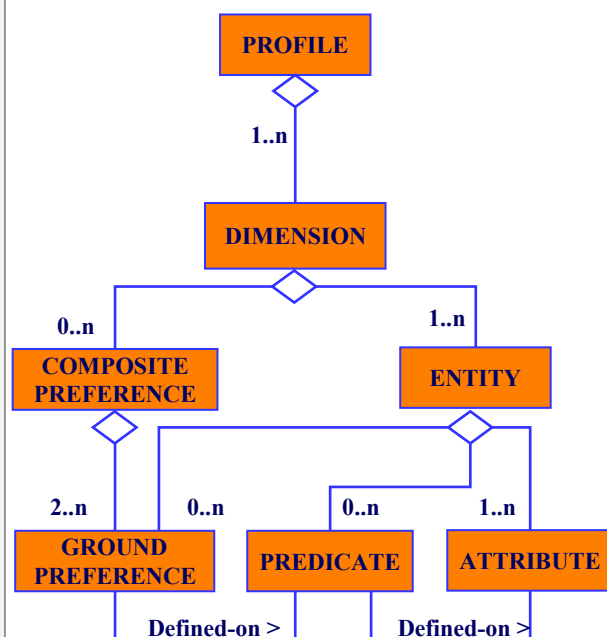
COMPOSITE PREFERENCES {
  SEQUENCE (P1 ; P2) }

DIMENSION Quality
ENTITY DataQuality
  ATTRIBUTES { freshness : integer }

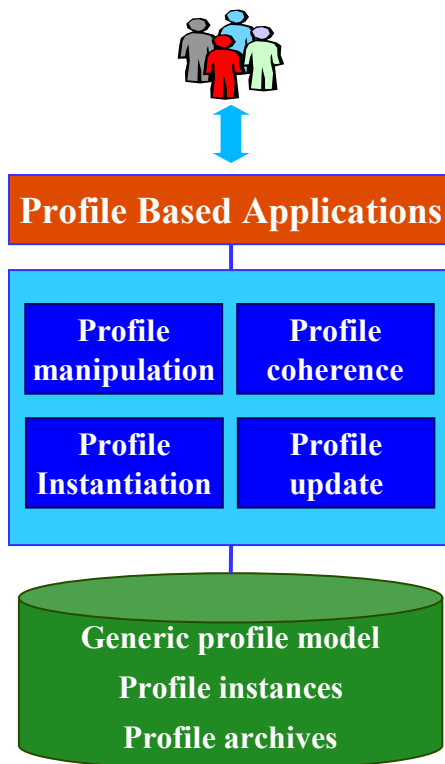
GROUND PREFERENCES {
  P4 : MIN(DataQuality.freshness) }

END PROFILE
  
```

Meta model of user profiles



Platform architecture



Profile management tools

- Profile instantiation
 - ◆ Profile structure choice
 - ◆ Values specification
- Basic operations for profile structure and/or values update
 - ◆ Insert
 - ◆ Delete
 - ◆ Update
- Profile manipulation operators
 - ◆ Equivalence
 - ◆ Match
 - ◆ Diff
- Profile coherence maintenance
 - ◆ Update propagation

