SOFTWARE GEMS

Sex

SexCode	
Name	AK

AnimalClass

AnimalClass	
AnimalClass_Parent	
Name	AK1

FoodType

FoodTypeCode	
Name	AK

·Comprises *Defines* *Comprises*

Animal

AnimalClass	AK.1
Animal	
SexCode	
Name	AK.2
Description	

Food

FoodTypeCode	
Food	
Name	AK

Classifies *Consumes* *Nourishes*

AnimalFood

AnimalClass
Animal
FoodTypeCode
Food

Activity

Activity	
Name	AK

Engages In *Occupies*

AnimalActivity

AnimalClass
Animal
Activity

AnimalClass_V

AnimalClass_Parent
AnimalClass
AnimalClass_Full
Name
Animal

Animal_V

AnimalClass
AnimalClass_Full
Animal
Name
Description
Food
Activity

Predicate (Relevant, not All)

```
Activity is independent
    Activity is primarily   identified by ( Activity )
    Activity is alternately identified by ( Name )
    Activity occupies 0-to-n Animal[Activitie]s

Animal is dependent on, and identified by, AnimalClass
    Animal is a constituent of 1 AnimalClass
    Animal is primarily   identified by ( AnimalClass, Animal )
    Animal is alternately identified by ( AnimalClass, Name )
    Animal is classified by 1 Sex
    Animal consumes 0-to-n [Animal]Foods
    Animal engages in 0-to-n [Animal]Activities

AnimalActivity is dependent on, and identified by, Animal
    AnimalActivity engages 1 Animal
    AnimalActivity is dependent on, and identified by, Activity
    AnimalActivity is an occupation of 1 Activity
    AnimalActivity is identified by ( AnimalClass, Animal, Activity )

AnimalClass is independent
    AnimalClass is primarily   identified by ( AnimalClass )
    AnimalClass is alternately identified by ( Name )
    AnimalClass[Child] is a constituent of 1 AnimalClass[Parent]
    AnimalClass[Parent] comprises 0-to-n AnimalClass[Children]
    AnimalClass defines 0-to-n Animals

AnimalFood is dependent on, and identified by, Animal
    AnimalFood is consumed by 1 Animal
    AnimalFood is dependent on, and identified by, Food
    AnimalFood is a nourishment of 1 Food
    AnimalFood is identified by ( AnimalClass, Animal, FoodTypeCode, Food )

Food is dependent on, and identified by, FoodType
    Food is a constituent of 1 FoodType
    Food is primarily   identified by ( FoodTypeCode, Food )
    Food is alternately identified by ( Name )
    Food nourishes 0-to-n Animal[Food]s

FoodType is independent
    FoodType is primarily   identified by ( FoodTypeCode )
    FoodType is alternately identified by ( Name )
    FoodType comprises 0-to-n Foods

Sex is independent
    Sex is primarily   identified by ( SexCode )
    Sex is alternately identified by ( Name )
    Sex classifies 0-to-n Animals
```

Entity Type

Reference	
Identifying/Major	
Identifying	
Transaction	
TransactionDetail	
History, Audit	

IDEF1X Notation