Solution 2

Module   (

     name   ,

     version   ,

     fspec   ,

     Primary key (name, version)   )

Function   (

     name   ,

     version   ,

     fname   ,

     plang   NOT NULL   ,

     source_code   NOT NULL   ,

     Primary key (name, version, fname)   ,

     Foreign key (name) references Module (name)   ,

     Foreign key (version) references Module (version)   )

Attribute   (

     name   ,

     Primary key (name)   )

Employee   (

     e#   ,

     fname NOT NULL   ,

     lname NOT NULL   ,

     dob   NOT NULL   ,

     salary NOT NULL   ,

     Primary key (e#)   )

(Untitled)   (

    e#   ,

    name   ,

    value   ,

    Primary key (e#, name)   ,

    Foreign key (e#) references Employee (e#)   ,

    Foreign key (name) references Employee (name)   )

Admin (

    e#   ,

    duties   NOT NULL   ,

    Primary key (e#)   ,

    Foreign key (e#) references Employee (e#)   )

Programmer   (

    e#   ,

    Primary key (e#)   ,

    Foreign key (e#) references Employee (e#)   )

Involvement   (

    e#   ,

    name   ,

    version   ,

    when-started ,

    when-completed   ,

    Primary key (e#, name, version, when-started)   ,

    Foreign key (e#) references Programmer (e#)   ,

    Foreign key (name) references Module (name)   ,

    Foreign key (version) references Module (version)   )

```
┌─────────────────────────┐        Has ▷                    ┌─────────────────────────┐
│ EMPLOYEE                │                                 │ ATTRIBUTE               │
│ e#              ID1     │ *                             * │ name              ID    │
│ fname           │                                         │                         │
│ lname           │          ┌─────────────────────┐       └─────────────────────────┘
│ dob             │          │                     │
│ salary          │          │ value               │
└─────────────────────────┘  └─────────────────────┘
          △
          │ (t-e)
     ┌────┴────────┐
┌─────────────────┐   ┌─────────────────────────┐
│ ADMIN           │   │ PROGRAMMER              │
│ duties[1..*]    │   │                         │
└─────────────────┘   └─────────────────────────┘
                       Works-on
          ┌────────────────────┐        1..*
          │ when-started       │
          └────────────────────┘
┌─────────────────────────┐
│ INVOLVEMENT             │               1..*
│ when-compl[0..1]        │
└─────────────────────────┘
                   ┌─────────────────────────┐  Includes ▷            ┌─────────────────────────┐
                   │ MODULE                  │                        │ FUNCTION                │
                   │ name            ID1     │    ┌──────────┐        │ plang                   │
                   │ version         ID1     │    │ fname    │   0..1 │ source-code             │
                   │ fspec                   │    └──────────┘        └─────────────────────────┘
                   └─────────────────────────┘
```