EMPLOYEE

e#　　　　　ID1
fname
lname
dob
salary

Has ▷

ACTIVE ATTRIBUTE

ATTRIBUTE

name　　　ID
when-added

value

*　　　　*

(t-e)

INACTIVE ATTRIBUTE

when-removed

DUTY

duty　　　ID

1..*

◁ Has

1..*

when-started

(t-e)

ADMIN

PROGRAMMER

Earns ▷

1..*　　1..*

SALARY

salary　　　ID
salary-date　ID

Works-on　　1..*

when-started

PROGRAMMER SALARY

DUTY-INVOLVEMENT

when-finished[0..1]

1..*

INVOLVEMENT

when-compl[0..1]

MODULE

name　　　ID1
version　　ID1
fspec

Includes ▷

fname

0..1

FUNCTION

plang
source-code
date-added

Step 1: Attribute is a time-dependent object, employee should only be associated with active Attributes. Set Attribute as a generalized class of Active and Inactive Attributes.
Step 2: Duties of Admins are time-dependent attributes. Duty-Involvement includes qualification-of-Association, in case an Admin is given a Duty again. Duty is a catalogue class.
Step 3: Salary of Programmers is also time-dependent, can be abbreviated as (salary:salary-date)[1..*]. Salary is a catalogue class.
Step 4: Simply add the date that the Function is added to the Module.