

-----Use Case 1&2-----

```
cepAdm.createEPL("create window factUser.win:keepall() as (userName String, channel String,
startTime Long, endTime Long) ");
```

```
EPStatement userFactStatement = cepAdm.createEPL("on UserEvent "
+ "merge factUser "
+ "where factUser.channel = UserEvent.userChannel "
+ "and factUser.userName = UserEvent.userName "
+ "when matched and UserEvent.userAction = '<vistaTV:quit>' and endTime = 0L"
+ "then delete where factUser.userName = UserEvent.userName "
+ "when not matched "
+ "then insert "
+ "select UserEvent.userName as userName, UserEvent.userChannel as channel,
UserEvent.timeStamp as startTime, 0L as endTime");
```

```
EPStatement countUser = cepAdm.createEPL("select count(*), channel from factUser group by
channel output all every "+ windowSize +" sec");
```

-----Use Case 3-----

```
cepAdm.createEPL("create window factUser.win:keepall() as (userName String, channel String,
startTime Long, endTime Long) ");
```

```
cepAdm.createEPL("create window factEPG.win:keepall() as (channel String, program String,
startTime Long, endTime Long) ");
```

```
cepAdm.createEPL("create window factViewship.win:keepall() as (userName String, program
String, startTime Long, endTime Long) ");
```

```
cepAdm.createEPL("on UserEvent "
+ "merge factUser "
+ "where factUser.channel = UserEvent.userChannel "
+ "and factUser.userName = UserEvent.userName "
+ "when matched and UserEvent.userAction = '<vistaTV:quit>' and endTime = 0L"
+ "then delete where factUser.userName = UserEvent.userName "
+ "when not matched "
+ "then insert "
+ "select UserEvent.userName as userName, UserEvent.userChannel as channel,
UserEvent.timeStamp as startTime, 0L as endTime");
```

```
cepAdm.createEPL("on EPGEEvent "
+ "merge factEPG "
+ "where factEPG.program = EPGEEvent.EPGProgram and factEPG.channel =
EPGEEvent.EPGChannel "
+ "when matched and EPGEEvent.EPGAction = '<vistaTV:finish>' and endTime = 0L "
+ "then delete where factEPG.program = EPGEEvent.EPGProgram and factEPG.channel
= EPGEEvent.EPGChannel "
+ "when not matched "
+ "then insert "
+ "select EPGEEvent.EPGChannel as channel, EPGEEvent.EPGProgram as program,
EPGEEvent.timeStamp as startTime, 0L as endTime");
```

```
cepAdm.createEPL("on UserEvent "
+ "merge factEPG "
+ "where UserEvent.userAction = '<vistaTV:join>' And factEPG.channel =
UserEvent.userChannel And factEPG.endTime = 0L "
+ "when matched "
+ "then insert into factViewship "
+ "select UserEvent.userName as userName, factEPG.program as program,
UserEvent.timeStamp as startTime, 0L as endTime");
```

```
cepAdm.createEPL("on EPGEEvent "
+ "merge factUser "
+ "where EPGEEvent.EPGAction = '<vistaTV:play>' And factUser.channel =
EPGEEvent.EPGChannel And factUser.endTime = 0L "
+ "when matched "
+ "then insert into factViewship "
+ "select factUser.userName as userName, EPGEEvent.EPGProgram as program,
EPGEEvent.timeStamp as startTime, 0L as endTime");
```

```
cepAdm.createEPL("on EPGEEvent "
+ "merge factViewship "
+ "where EPGEEvent.EPGAction = '<vistaTV:finish>' And EPGEEvent.EPGProgram =
factViewship.program And factViewship.endTime = 0L "
+ "when matched " + "then delete "
+ "where EPGEEvent.EPGAction = '<vistaTV:finish>' And EPGEEvent.EPGProgram =
factViewship.program And factViewship.endTime = 0L ");
```

```
cepAdm.createEPL("select count(*), program from factViewship group by program output all
every "+ windowSize +" sec");
```