Use Case 1&2
cepAdm.createEPL("create window factUser.win:keepall() as (userName String, channel String

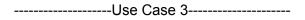
EPStatement userFactStatment = cepAdm.createEPL("on UserEvent"

+ "merge factUser "

startTime Long, endTime Long) ");

- + "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");



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 EPGEvent "

- + "merge factEPG"
- + "where factEPG.program = EPGEvent.EPGProgram and factEPG.channel = EPGEvent.EPGChannel "
 - + "when matched and EPGEvent.EPGAction = '<vistaTV:finish>' and endTime = 0L "
- + "then delete where factEPG.program = EPGEvent.EPGProgram and factEPG.channel = EPGEvent.EPGChannel "
 - + "when not matched "
 - + "then insert "
- + "select EPGEvent.EPGChannel as channel, EPGEvent.EPGProgram as program, EPGEvent.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 EPGEvent "

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

cepAdm.createEPL("on EPGEvent "

- + "merge factViewship "
- + "where EPGEvent.EPGAction = '<vistaTV:finish>' And EPGEvent.EPGProgram = factViewship.program And factViewship.endTime = 0L"
 - + "when matched " + "then delete "
- + "where EPGEvent.EPGAction = '<vistaTV:finish>' And EPGEvent.EPGProgram = factViewship.program And factViewship.endTime = 0L ");

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