

DISTRIBUTE\_RESULT( \$\$20 )

1:1

PROJECT( \$\$20 )

ASSIGN( \$\$20:open-record-constructor(  
"uname", \$\$29, "message", \$\$30) )

PROJECT( \$\$29, \$\$30 )

1:1

Hybrid Hash JOIN( eq(\$\$27, \$\$26) )

m:n hash partitioning

PROJECT( \$\$27, \$\$30 )

SELECT( algebricks-and(  
algebricks-ge(\$\$23,  
ADateTime: { 2011-02-24T20:01:48.000Z } ),  
algebricks-lt(\$\$23,  
ADateTime: { 2011-02-25T05:01:48.000Z } )))

PROJECT( \$\$23, \$\$27, \$\$30 )

ASSIGN( \$\$30, \$\$27, \$\$23:  
field-access-by-name(\$\$0, "message"),  
field-access-by-name(\$\$0, "author\_id"),  
field-access-by-name(\$\$0, "send\_time") )

PROJECT( \$\$0 )

1:1

DATA\_SCAN( \$\$25, \$\$0:  
SocialNetworkData.GleambookMessages )

1:1

EMPTY\_TUPLE\_SOURCE

1:1

PROJECT( \$\$26, \$\$29 )

SELECT(algebricks-and(  
algebricks-ge(\$\$24,  
ADateTime: { 2008-10-24T14:21:21.000Z } ),  
algebricks-lt(\$\$24,  
ADateTime: { 2008-10-25T14:21:21.000Z } )))

PROJECT( \$\$24, \$\$26, \$\$29 )

ASSIGN( \$\$29, \$\$24:  
field-access-by-name(\$\$1, "name"),  
field-access-by-name(\$\$1, "user\_since") )

1:1

DATA\_SCAN( \$\$26, \$\$1:  
SocialNetworkData.GleambookUsers )

1:1

EMPTY\_TUPLE\_SOURCE