

Selection on two indexed columns (a character and a date)

Code

```
Data credit_sasma;  
    set SASMAHIS.SASMA_ACCOUNT_HISTORY  
(where=(account_number='0010010000000001401' and Obs_Date =  
'12JAN2023'd));  
run;
```

Log – sub 1 second runtime

```
28          Data credit_sasma;  
29          set SASMAHIS.SASMA_ACCOUNT_HISTORY  
(where=(account_number='0010010000000001401' and Obs_Date =  
'12JAN2023'd));  
30          run;
```

NOTE: There were 1 observations read from the data set SASMAHIS.SASMA_ACCOUNT_HISTORY.

WHERE (account_number='0010010000000001401') and (Obs_Date='12JAN2023'D);

NOTE: The data set WORK.CREDIT_SASMA has 1 observations and 850 variables.

NOTE: Compressing data set WORK.CREDIT_SASMA increased size by 100.00 percent.

Compressed is 2 pages; un-compressed would require 1 pages.

NOTE: DATA statement used (Total process time):

real time	0.08 seconds
cpu time	0.02 seconds

Selection indexed column - date formatted column

Code

```
Data credit_sasma;  
    set SASMAHIS.SASMA_ACCOUNT_HISTORY (where=(Obs_Date =  
'12JAN2023'd));  
run;
```

Log – 1 minute 22 seconds

```
28          Data credit_sasma;  
29          set SASMAHIS.SASMA_ACCOUNT_HISTORY (where=(Obs_Date =  
'12JAN2023'd));  
30          run;
```

NOTE: There were 2789161 observations read from the data set SASMAHIS.SASMA_ACCOUNT_HISTORY.

WHERE Obs_Date='12JAN2023'D;

NOTE: The data set WORK.CREDIT_SASMA has 2789161 observations and 850 variables.

NOTE: Compressing data set WORK.CREDIT_SASMA decreased size by 67.65 percent.

Compressed is 60148 pages; un-compressed would require 185945 pages.

NOTE: DATA statement used (Total process time):

real time	1:22.18
cpu time	1:20.71

Selection on two indexed character columns

Code

```
Data credit_sasma;  
    set SASMAHIS.SASMA_ACCOUNT_HISTORY  
(where=(account_number='0010010000000001401' and  
logo_desc='FOSCHINI'));  
run;
```

Log – 21 seconds

```
28          Data credit_sasma;  
29          set SASMAHIS.SASMA_ACCOUNT_HISTORY  
(where=(account_number='0010010000000001401' and  
logo_desc='FOSCHINI'));  
30          run;
```

NOTE: There were 37 observations read from the data set SASMAHIS.SASMA_ACCOUNT_HISTORY.

```
WHERE (account_number='0010010000000001401') and  
(logo_desc='FOSCHINI');
```

NOTE: The data set WORK.CREDIT_SASMA has 37 observations and 850 variables.

NOTE: Compressing data set WORK.CREDIT_SASMA decreased size by 0.00 percent.

Compressed is 3 pages; un-compressed would require 3 pages.

NOTE: DATA statement used (Total process time):

```
real time          0.21 seconds  
cpu time           0.04 seconds
```

Table Indexes

Library Name	Member Name	Member Type	Column Name	Column Index Type	Index Name	Position of Column in Concatenated Key	Nomiss Option	Unique Option
SASMAHIS	SASMA_ACCOUNT_HISTORY	DATA	Account_Number	COMPOSITE	numname	0	yes	no
SASMAHIS	SASMA_ACCOUNT_HISTORY	DATA	OBS_DATE	COMPOSITE	numname	10	yes	no
SASMAHIS	SASMA_ACCOUNT_HISTORY	DATA	LOGO_DESC	SIMPLE	LOGO_DESC	.	no	no
SASMAHIS	SASMA_ACCOUNT_HISTORY	DATA	Account_Status	SIMPLE	Account_Status	.	no	no
SASMAHIS	SASMA_ACCOUNT_HISTORY	DATA	OBS_DATE	SIMPLE	OBS_DATE	.	no	no
SASMAHIS	SASMA_ACCOUNT_HISTORY	DATA	Account_Number	SIMPLE	Account_Number	.	no	no