

SAS Increments by group

```

data t;
input id date mmddyy8.;
cards;
1 01/01/96
1 01/02/96
1 01/23/96
2 05/01/97
2 04/03/97
3 01/01/96
3 03/02/96
3 03/23/96
;
proc sort data=t;
by id date ;
run;quit;
data t1;
set t;
retain todays;
by id ;
if first.id then do;todays=date;gap=0;end;
if first.id~1 then gap=date-todays;
todays=date;
run;quit;
proc sort data=t1;
by id descending date ;

proc print data=t1;
format date todays mmddyy8.;
run;quit;
  
```

Results

Obs	id	date	todays	gap
1	1	01/23/09	01/23/09	21
2	1	01/02/09	01/02/09	1
3	1	01/01/09	01/01/09	0
4	2	05/01/09	05/01/09	28
5	2	04/03/09	04/03/09	0
6	3	03/23/09	03/23/09	21
7	3	03/02/09	03/02/09	60
8	3	01/01/09	01/01/09	0

SAS SQL Appending and Merging data

```

data t;
input a b c d g f;
cards;
1 2 3 4 5 1
2 3 4 5 6 0
3 4 5 6 7 0
;
DATA T4;
input a b c d g f;
cards;
1 6 7 8 9 0
4 1 2 3 4 2
DATA T3;
input a b c d g f;
cards;
3 6 7 8 9 0
2 2 3 4 5 2
4 1 2 3 4 2
;
proc sql ;
create table r as
select * from t
union
select * from t3 ;
proc print data=r;
PROC SQL;
CREATE TABLE T4 AS
SELECT COALESCE(A.A, B.A) AS X,
A.F AS FA,
B.F AS FB FROM T A FULL JOIN T3 B ON A.A=B.A;
PROC PRINT DATA=T4;
RUN;
  
```

Results

Obs	a	b	c	d	g	f
1	1	2	3	4	5	1
2	2	2	3	4	5	2
3	2	3	4	5	6	0
4	3	4	5	6	7	0
5	3	6	7	8	9	0
6	4	1	2	3	4	2

Obs	X	FA	FB
1	1	1	.
2	2	0	2
3	3	0	0
4	4	.	2