## Tests for the member dimension and the fact flight

**1.** <u>Test of the member dimension:</u> We made a test that demonstrates that new, deleted and changed rows in the table member are correctly type-2 updated in the members dimension.

First, we create a **new member** with initials "dwhg" and name "data" into the "taMember":



Then, we run the ETL for d member:

And here we can see that the dimension member was correctly updated with the new member



In the second test, we **change** the name of the member that we created before:

```
update tamember
set name = 'warehousing'
where memberno = 510;
```

## We run the ETL again:

```
'ROWCOUNTSBEFORE:'
Row counts before:
Rows in extract table before (should be zero)0
Rows in Members table 508
Rows in Members table (yesterday copy) 508
```

And we can see that the table dimension members was correctly updated:



For the third test, we **deleted** the member that we created before:

```
delete tamember where MemberNo = 510;
```

## We run the ETL:

Here we can see that the table dimension members correctly updated, because it set the valid\_to date for the member deleted to today's date:



**2.** <u>Test of the fact table</u> that demonstrate the correct insertion of facts for a single-pilot and a two-pilot flight:

First we **inserted 2 new flights**, one with **one pilot**, and the second one with **2 pilots** in the taFlightsSG70.

```
insert into taFlightsSG70 (launchTime, landingTime, planeRegistration, pilotlInit, pilot2Init,
launchAerotow, launchWinch, launchSelfLaunch, cableBreak, CrossCountryKm) values
(to_date('2018-04-29 11:31', 'YYYY-MM-DD HH24:MI'), to_date('2018-04-29 17:58', 'YYYY-MM-DD HH24:MI'),
'DWH', 'DIDI', '', 'Y', 'N', 'N', 'N', 464);

insert into taFlightsSG70 (launchTime, landingTime, planeRegistration, pilotlInit, pilot2Init,
launchAerotow, launchWinch, launchSelfLaunch, cableBreak, CrossCountryKm) values
(to_date('2017-06-17 12:02', 'YYYY-MM-DD HH24:MI'), to_date('2017-06-17 16:04', 'YYYY-MM-DD HH24:MI')
, 'DAM', 'DADA', 'MJFF', 'N', 'N', 'N', 'N', '0);
```

We didn't have an extract report for flight to show the result of the rows extracted, but after running the ETL this is the F\_FLIGHT dimension, where you can see that the flights were inserted (we have made fake information in the launch\_method\_id, plane\_id and club\_id because we didn't populate those tables. The rows inserted are the ones with group\_id "15067" and "15068".



And here, we can see the correct insertion of the information into the bridge table, the rows inserted are the ones with group\_id "15067" and "15068". The group id is the same for the flight with two pilots and their respective weight is 0.5.

