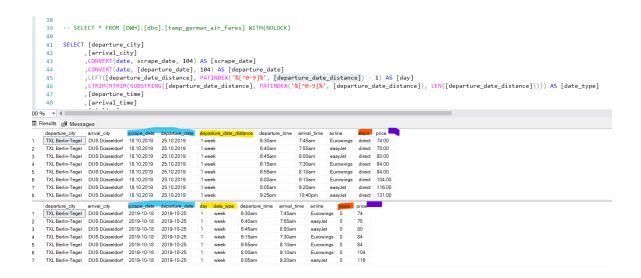
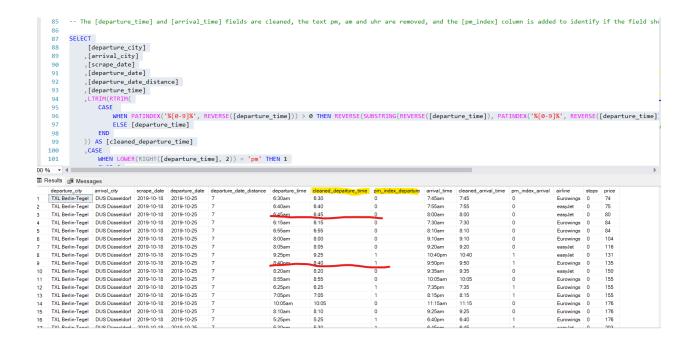
The first step is to convert to date the fields [scrape_date] and [departure_date], for the field [departure_date_distance] two new fields are created to separate the number and the comments, in the same way that the field [stops] is converted to numbers by removing all the text, finally, we convert [price] to integers.



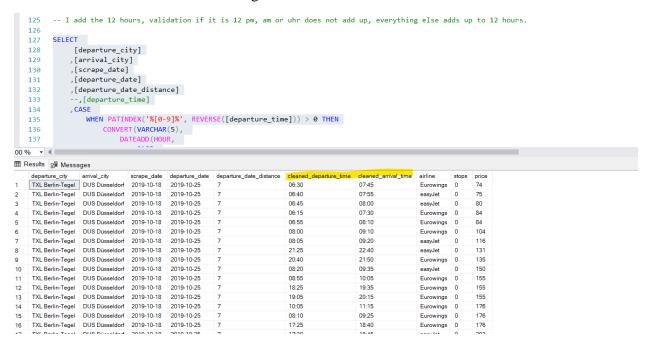
Now we use the new fields [day] and [date_type] to calculate the days in advance of the ticket purchase.

```
-- The calculation of days in reserve, transformation of weeks and months to days is made.
   63
          SELECT [departure_city]
   64
                ,[arrival_city]
   65
   66
                 ,[scrape date]
   67
                ,[departure_date]
                  --,[day]
   68
                 --,[date_type]
    70
                   WHEN [date_type] IN ('week', 'weeks') THEN [day] * 7
    71
    72
                   WHEN [date_type] IN ('months', 'month') THEN [day] * 30
    73
                   ELSE 0
    74
                  END AS [departure_date_distance]
   75
                 ,[departure_time]
   76
                 ,[arrival_time]
   77
                 ,[airline]
   78
                 ,[stops]
10 % ▼ ◀
Results Messages
   departure_city
                   arrival_city
                                scrape_date
                                            departure_date
                                                                              departure_time
                                                                                            arrival_time
                                                                                                       airline
   TXL Berlin-Tegel DUS Düsseldorf 2019-10-18
                                                                                            7:45am
                                                                                                       Eurowings
                                                                                                                       74
                                            2019-10-25
                  DUS Düsseldorf
                                                                              6:40am
    TXL Berlin-Tegel
                                2019-10-18
                                            2019-10-25
                                                                                            7:55am
                                                                                                                 0
                                                                                                                       75
                                                                                                       easyJet
                                                                              6:45am
   TXL Berlin-Tegel DUS Düsseldorf 2019-10-18
                                            2019-10-25
                                                                                            8:00am
                                                                                                       easyJet
                                                                                                                 n
                                                                                                                       80
   TXL Berlin-Tegel DUS Düsseldorf 2019-10-18
                                            2019-10-25
                                                                               6:15am
                                                                                            7:30am
                                                                                                       Eurowings
                                                                                                                       84
   TXL Berlin-Tegel
                  DUS Düsseldorf 2019-10-18
                                            2019-10-25
                                                                               6:55am
                                                                                            8:10am
                                                                                                       Eurowings
                                                                                                                       84
   TXL Berlin-Tegel DUS Düsseldorf 2019-10-18
                                            2019-10-25
                                                                               8:00am
                                                                                            9:10am
                                                                                                       Eurowings
                                                                                                                 0
                                                                                                                       104
   TXL Berlin-Tegel DUS Düsseldorf 2019-10-18
                                            2019-10-25
                                                                               8:05am
                                                                                            9:20am
                                                                                                       easvJet
                                                                                                                 0
                                                                                                                       116
   TXL Berlin-Tegel DUS Düsseldorf 2019-10-18
                                            2019-10-25
                                                                               9:25pm
                                                                                            10:40pm
                                                                                                                       131
                                                                                                       easyJet
   TXL Berlin-Tegel DUS Düsseldorf 2019-10-18
                                            2019-10-25
                                                                               8:40pm
                                                                                            9:50pm
                                                                                                                       135
                                                                                                       Eurowings
   TXL Berlin-Tegel DUS Düsseldorf 2019-10-18
                                            2019-10-25
                                                                               8:20am
                                                                                            9:35am
                                                                                                                       150
                                                                                                       easyJet
   TXL Berlin-Tegel DUS Düsseldorf
                                                                                            10:05am
                                                                                                       Eurowings
   TXL Berlin-Tegel DUS Düsseldorf 2019-10-18 2019-10-25
                                                                               6:25pm
                                                                                            7:35pm
                                                                                                       Eurowings 0
```

With the following code we create the new field [cleaned_departure_time] where we delete "am, pm, uhr" and also create the field [pm_index_departure] to identify the fields where we must add 12 hours to have everything in 24 hours format.



Then we do the sum of 12 hours using our new fields and we will have the standardized fields.



We eliminate duplicate data since we do not have an ID for each flight.

```
185
186
         ----- DELETE DUPLICATE ROWS -----
187
      WITH DuplicatesCTE AS (
188
          SELECT
189
190
              [departure_city],
              [arrival_city],
191
              [scrape_date],
192
              [departure_date],
193
              [departure_date_distance],
194
              [cleaned_departure_time],
195
              [cleaned_arrival_time],
196
              [airline],
197
198
              [stops],
199
              [price],
              ROW_NUMBER() OVER (
200
                  PARTITION BY
201
                      [departure_city],
202
                      [arrival_city],
203
204
                      [scrape_date],
                      [departure_date],
205
                      [departure_date_distance],
206
                      [cleaned_departure_time],
207
208
                      [cleaned_arrival_time],
                      [airline],
209
210
                      [stops],
211
                      [price]
212
                  ORDER BY
                      [scrape_date] DESC
213
              ) AS RowNum
214
          FROM #temp4_german_air
215
216
217
     DELETE FROM DuplicatesCTE
      WHERE RowNum > 1;
218
```

Finally, we merge the production table and compare the original data with the final data.

