Extract-Transform-Load (ETL) Process Design for the ACME-Flying Use Case

- The maintenance period for the calculation of ADOS wasextracted from AMOS.
- scheduleddeparture and strttime are used as dateID from Flights and Maintenanceevents tables respectively.
- Future additions or updates of the *Bussines Rules (BR)* were not taken into account and some BR^1 were not considered given that the affected tables were not used.
- BR-18 was simultaneously checked with BR-14, but the "diverted" condition has been overlooked.
- The FlightNumber in the BR-14 was only checked with respect to the length of the substring in between positions 15 and 19 from FlightID, due to a missing reference.
- For BR-12, the length differentiation of duration for AircraftOnground and Maintenance lies on . < 24 or $. \le 24$ respectively.
- The days of delay for the BR-8 was computed with respect to the time difference of executiondate and due from Technicallogbookorders.
- For BR-6, only a verification of serial number was done, since unique values were checked in the BR-2 and BR-3.
- In Flights, we assume that actualarrival is computed for the same time zone as actualdeparture.
- ADIS is the time difference between scheduleddeparture and actualarrival since we assume that the interval contains both *in-flight* and *ready-for-flight*.
- scheduleddeparture and actualdeparture were used to compute the duration of the delay, if any.
- ullet reporteurID from Technicallogbookorders without an assigned airport in the .csv lookup file were not removed but given a "NaN" string value.
- The affected records removed (in BR-2, BR-6, BR-7, BR-8) from the AirportDimension flow were not stored since those are the same affected rows as in LogBookMetrics.

¹BR-1, BR-5, BR-10, BR-11.