

# BoM - Bill Of Material

## Data Object Definition

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BOM (Bill of Material), is a cost-focused recipe of everything required to build a material, including energy and logistic related costs.

## Deployment Status

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This data is available in the Data Ocean as of Q4 2024.

## Data Model

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BOM related data, composed of both actuals and forecasts, are extracted through SAP BW queries(COPC04 and COPA06) where costs are available as monthly versions called "run periods".

Each version (i.e. run period) is composed of one actual month and 18 forecast months:

### Manufacturing Variable Costs

QV\_BW\_QRY\_CPCOPC04\_0001

Forecasts of variable costs for manufacturing each material, detailing all component costs. Such forecasts are consolidated as monthly versions.

### Manufacturing Costs (can be called IVC -Integrated variable cost as well)

QVSBS\_BW\_QRY\_MVCOPA06\_0001

Historical (variable or fixed) costs for manufacturing each material. It only provides overall costs for variable costs, logistic and fixed costs.

BOM data in the Data Lake is composed of below tables/views:

1. V\_FACT\_bom\_raw - This table/view will hold the BOM data(QV\_BW\_QRY\_CPCOPC04\_0001) in the RAW format as it is extracted from source (SAP-BW)
2. V\_FACT\_bom\_flg\_raw - This table/view will hold the BOM flc data(QVSBS\_BW\_QRY\_MVCOPA06\_0001) in the RAW format as it is extracted from source (SAP-BW)
3. V\_FACT\_bom\_enriched - This table/view will combine and consolidate the historical and forecast data from both V\_FACT\_bom\_raw and V\_FACT\_bom\_flg\_raw as a unique timeline

Project Space: gcp-sqo-data-pricing-d

See how this entity relates to the others in the [pricing data model here](#).

## Additional Info & Comments

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## Data Flow

Loading process:

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- Data will be refreshed from SAP-BW into data ocean on a daily basis
- Will extract forecast data from CPCOPC04 data latest month of transactions on a daily basis and refresh into data ocean. This will include next 24 months of data
- Will extract last 27months data from MVCOPA06 SAP-BW query
- Stage table will be partitioned on meta\_stg\_Insert\_date
- ODS table will be partitioned on meta\_ods\_Insert\_date
- FACT\_bom\_raw, FACT\_bom\_flg\_raw and FACT\_bom\_enriched tables will be partitioned on running\_month
- Refer below data flow diagram for in-detailed low level design of the flow.

<https://docs.google.com/drawings/d/1sC8p4J9RtrwRuKXOvgM3a-r4R4Bj5Hs0IJIVqE19eYY/edit>  
[https://docs.google.com/drawings/d/1y1-\\_4IROiqBsFIJ\\_SMRCW-1pgoiREAZC--ceOIZojwU/edit](https://docs.google.com/drawings/d/1y1-_4IROiqBsFIJ_SMRCW-1pgoiREAZC--ceOIZojwU/edit)

Refer below data flow diagram for low level data flow design:

## Tables & Attributes

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**View ID:** [gcp-sqo-data-pricing-d.DataOcean.V\\_FACT\\_bom\\_raw](#)

**View ID:** [gcp-sqo-data-pricing-d.DataOcean.V\\_FACT\\_bom\\_flg\\_raw](#)

**View ID:** [gcp-sqo-data-pricing-d.DataOcean.V\\_FACT\\_bom\\_enriched](#)