

Slowly changing Dimension

Type 1:

Previous Data

Eid	Name	Gender	Designation	Last Updated
123	Ankit	M	Data Engineer	1st May 2022

Current Data:Overwritten Record

Eid	Name	Gender	Designation	Last Updated
123	Ankit	M	Sr.Data Engineer	1st June 2023

Existing record will be overwritten in SCD Type 1



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Type 2:

Previous Data

Key	Eid	Name	Gender	Designation	Start date	End Date
1	123	Ankit	M	Data Engineer	01-05-2022	31-12-9999

Current Data: Added New Row

Key	Eid	Name	Gender	Designation	Start Date	End Date
1	123	Ankit	M	Data Engineer	01-05-2022	31-05-2023
2	123	Ankit	M	Sr.Data Engineer	01-06-2023	31-12-9999

New record will be added with Current date and high end effective date (31-12-1999)
Previous record will be marked expired/passive with end date as new records start date-1



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Type 3:

Previous Data

Eid	Name	Gender	Designation
123	Ankit	M	Data Engineer

Current Data: Added New Column

Eid	Name	Gender	Designation	Previous Designation
123	Ankit	M	Sr.Data Engineer	Data Engineer

In SCD Type-3, For previous transaction new column will be utilised where the history for previous transaction will be maintained in our case it is designation



Ankit Sharma