EASILY MANAGE SLOWLY CHANGING DATA WITH ASTERA DW BUILDER



At the enterprise-level, effective decision-making depends on the quality of your business data.

On a daily basis, records are corrected, updated, and modified as new information arrives across every function.

Your data warehouse needs to reflect the constant changes taking place in each of these source systems.

TRANSACTIONAL RECORDS ARE DYNAMIC

HR

- New employees are hired.
- Existing employees are promoted.
- Employee details are updated as changes occur in their personal and professional life.
- Incentives and policies are refreshed on an ongoing basis.

MARKETING

- New product lines are launched.
- Existing product lines are rebranded or modified.
- Campaign details are modified as feedback comes in from different segments.

PROCUREMENT

- Supplier details are modified or corrected.
- Product specifications change.
- Information on unit pricing and additional taxes/duties is updated regularly.

SALES

- Data on leads and clients is continuously corrected and updated.
- Sales teams are reorganized, resulting in changes to reporting.
- Executives and account managers are assigned to different regions and clients.

EFFECTIVELY HANDLE DYNAMIC DATA WITH SLOWLY CHANGING DIMENSIONS IN ADWB

RECORDING CORRECTIONS

Fixing outdated or erroneous details in your operational system?

Choose the **SCD-1 Update** option for the corrected fields. This will overwrite the data warehouse's related attribute, ensuring only current data is reported.

ANALYZE DATA AFTER OPERATIONAL CHANGES

Want to evaluate how operational changes affect performance in different departments? Select the **SCD-2 Update and Insert option** to maintain past data for updated attributes.

Now, a new row will be added to the related dimension table to reflect changes in the original record, so you have historical and current data available for querying.

KEEP TRACK OF UPDATED RECORDS

In ADWB there are multiple ways to keep track of current and past records.

Monitoring attributes over a period of time? Add effective/expiration date fields to your table in the layout builder.

Dealing with more volatile attributes? Implement versioning, so each generated record is assigned a sequence number based on order of recency.

Use active flags to assign a (user-defined) flag for the most current version of a record and simplify data warehouse queries.

CREATE A LIMITED HISTORICAL VIEW

If a value is likely to change very rarely then you can maintain just the recent history of an attribute. You can select the **SCD-3 Current Value** option for your dimension table field. This will add three columns to the original record showing the original value, the current value, and an effective date for the change.

Build a Data Warehouse That's Tailored to Your Business Environment

Try Astera Data Warehouse Builder