BOLD DATA HUB

ETL built into Bold Reports, no extra tools needed

Bold Reports is a complete RDL reporting platform, and Bold Data Hub is its built-in ETL layer. Extract from 48 source connectors, transform with SQL in a staged DuckDB layer, and load clean data into 17 destination types, ready for report design.

How it works

01 EXTRACT	02 TRANSFORM	03 LOAD
Sources	**Staging in DuckDB**	**Destination**
Files (CSV, Excel, JSON), REST and web APIs, SQL and NoSQL databases	SQL transforms with a live preview before anything is saved	Your warehouse or database; Parquet bulk upload for large datasets

Bold Data Hub connects to 48 source connectors, including cloud warehouses such as Snowflake and Amazon Redshift, in addition to the 25+ built-in report data connectors. When a pipeline completes, Bold Reports automatically creates a live data source connected to the destination, so report designers can start building immediately.

Prepare data with SQL

Filter and sort
SELECT queries with WHERE and ORDER BY keep only the rows your reports need.

Join sources
Combine tables from multiple databases, files and services in one pipeline.

Pre-compute KPIs
Aggregate with SUM, AVG, COUNT and date_part() so reports run on summarized data.

Convert types
CAST text to dates, integers to decimals, and normalize values.

Derived columns and upserts
Add columns with SQL formulas; with primary keys set, rows are updated, not duplicated.

Reusable steps
Reorder transforms by drag and drop, save drafts, and use isDropTable to recreate or keep tables.

48	17	1	0
SOURCE CONNECTORS	DESTINATION TYPES	PIPELINE FROM SOURCE TO REPORT	EXTRA ETL TOOLS NEEDED

AT A GLANCE

SOURCES
48 source connectors

DESTINATIONS
17 destination types

STAGING
DuckDB, with SQL preview

LARGE DATA
Parquet bulk upload for large datasets

SCHEDULING
Interval-based runs and on-demand Run Now

INCLUDED
Built into Bold Reports; no separate ETL tool

Keep every report on current data

Scheduling
Interval-based ETL schedules in the Schedule tab, plus on-demand runs with Run Now.

Run history and logs
Every execution is logged with its status and row counts, so failures are easy to debug.

Large file handling
Large CSV files are staged in DuckDB and bulk-loaded through Parquet, outside the report server.

Multi-source pipelines
Bring files, web APIs, SQL and NoSQL sources into one pipeline, from a YAML file or template.

Multiple destinations
Configure several destinations of the same type, such as separate dev, staging and production databases.

No-code to full control
A visual pipeline designer and templates for everyone; YAML and SQL editing for advanced users.

17 destination types

Bold IMDB Datastore · PostgreSQL · SQL Server · MySQL · Apache Doris · Snowflake · Oracle · Google BigQuery · Amazon Redshift · ClickHouse · Azure Synapse · StarRocks · MinIO · SAP HANA Cloud · IBM DB2 · Firebolt · Teradata

SECURITY

- Data encrypted in transit and at rest
- Credential encryption in pipeline files (`encrypt_credentials: true`)
- Access control and user roles inherited from Bold Reports
- Shared single sign-on across Bold Data Hub, Bold Reports and Bold BI

REQUIREMENTS

- On-Premises Windows deployments need Python 3.13 (system-wide or in a virtual environment), configured once in appsettings.json
- Bold Reports can still connect directly to its 25+ built-in report data connectors without Bold Data Hub

Set up your first pipeline

Extract, transform with SQL and load into your reporting environment automatically. Free trial: 30 days with a work email, 15 days with a personal email. No credit card.

START YOUR FREE TRIAL | REQUEST A DEMO

WEBSITE
www.boldreports.com

DOCUMENTATION
help.boldreports.com

SUPPORT
boldreports.com/support/

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