Colume Product Metadata

1. features.csv (New Table)

Description: Provides metadata about each product feature.

Columns:

feature_id (VARCHAR/TEXT, Primary Key): A unique identifier for the feature (e.g., 'F01', 'F15').

feature_name (VARCHAR/TEXT): The display name of the feature (e.g., 'Al Assistant').

category (VARCHAR/TEXT): A general classification (e.g., 'Core', 'Collaboration', 'Productivity',

'Admin', 'New', 'UI/UX', 'Unknown').

launch_date (DATE/TIMESTAMP): The date the feature was considered launched (set to

user_start_date for existing features, NEW_FEATURES_LAUNCH_DATE for new ones).

available_plans (VARCHAR/TEXT): Comma-separated list of plans that can access the feature

(e.g., 'All', 'Basic, Pro, Enterprise', 'Pro, Enterprise', 'Enterprise').

2. users.csv

Description: Stores information about individual users, including intentionally introduced data quality issues.

Columns:

user_id (VARCHAR/TEXT, Primary Key)

name (VARCHAR/TEXT)

email (VARCHAR/TEXT, Nullable)

location (VARCHAR/TEXT, Nullable)

age (INTEGER/VARCHAR, Nullable)

plan_type (VARCHAR/TEXT)

sign_up_date (DATE/TIMESTAMP)

is_active (BOOLEAN)

churn_date (DATE/TIMESTAMP, Nullable)

3. subscriptions.csv

Description: Tracks user subscription periods, plans, and changes.

Columns:

subscription_id (VARCHAR/TEXT, Primary Key)

user_id (VARCHAR/TEXT, FK)

plan (VARCHAR/TEXT)

duration (VARCHAR/TEXT)

start_date (DATE/TIMESTAMP)

end_date (DATE/TIMESTAMP)

status (VARCHAR/TEXT)

4. billing.csv

Description: Stores records of billing events for user subscriptions.

Columns:

billing_id (UUID/VARCHAR, Primary Key)

user_id (VARCHAR/TEXT, FK)

billing_date (DATE/TIMESTAMP)

plan_type (VARCHAR/TEXT)

amount (DECIMAL/FLOAT)

currency (VARCHAR/TEXT)

status (VARCHAR/TEXT)

payment_method (VARCHAR/TEXT)

5. sessions.csv

Description: Records individual user login sessions. Contains deliberate duplicates.

Columns:

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session_id (VARCHAR/TEXT, Primary Key conceptually)
user_id (VARCHAR/TEXT, FK)
login_time (TIMESTAMP)
logout_time (TIMESTAMP)
device_type (VARCHAR/TEXT, Nullable)
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6. activity_log.csv

Description: Detailed log of activities performed by users during their sessions.

Columns:

activity_id (VARCHAR/TEXT, Primary Key)

session_id (VARCHAR/TEXT, FK)

user_id (VARCHAR/TEXT, FK)

activity_type (VARCHAR/TEXT)

timestamp (TIMESTAMP)

7. feedback.csv

Description: Stores user-submitted feedback, including ratings and comments.

Columns:

feedback_id (VARCHAR/TEXT, Primary Key)

user_id (VARCHAR/TEXT, FK)

session_id (VARCHAR/TEXT, FK)

submission_timestamp (TIMESTAMP)

rating (INTEGER/VARCHAR)

comment_type (VARCHAR/TEXT)

comment (TEXT, Nullable)

feature_area (VARCHAR/TEXT, Nullable)

8. support_tickets.csv

Description: Stores information about support tickets raised by users.

Columns:

ticket_id (UUID/VARCHAR, Primary Key)

user_id (VARCHAR/TEXT, FK)

feature (VARCHAR/TEXT)

submitted_at (TIMESTAMP)

priority (VARCHAR/TEXT)

resolved (BOOLEAN/INTEGER)

resolved_at (TIMESTAMP, Nullable)

status (VARCHAR/TEXT)

9. system_metrics.csv

Description: Hourly aggregated system performance and usage metrics.

Columns:

timestamp (TIMESTAMP, Primary Key conceptually)

active_users (INTEGER)

request_count (INTEGER)

error_count (INTEGER)

error_rate (DECIMAL/FLOAT)

cpu_usage (DECIMAL/FLOAT)

memory_usage (DECIMAL/FLOAT)

response_time (DECIMAL/FLOAT)