An Infographic on Schema Changes from April to June 2025

## **Pre-April 2025: The Initial Schema**

As of the base database dump (May 9, 2025), and accounting for subsequent explicit creation dates, the `df\_ticketing` system began with a robust set of core tables forming its fundamental structure.

Tables Present Before April 15, 2025

51

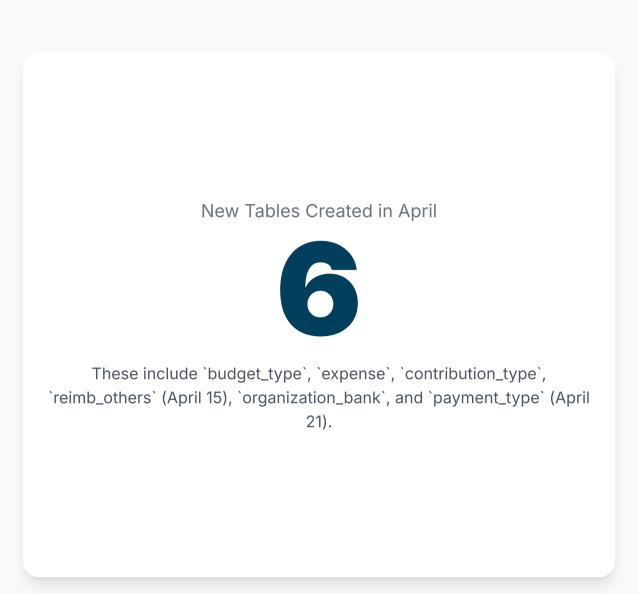
These 51 tables, including foundational entities like 'users', 'roles', 'tickets', 'ledgers', and 'master\_status', were the backbone of the 'df\_ticketing' system prior to the major documented changes.

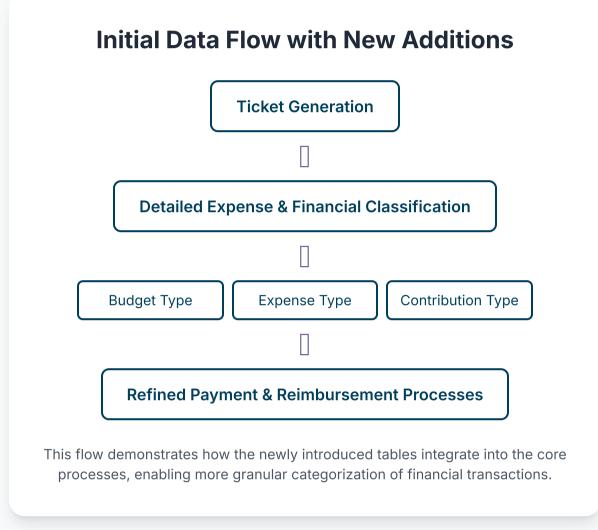
#### **Foundational Modules**

- \*\*User Management:\*\* `users`, `roles`, `user\_roles`, `login\_details`,
   `user\_history`.
- \*\*Organizational Structure:\*\* `organization`, `entities`,
   `departments` `sub\_departments` `cost\_center`
- 'departments', 'sub\_departments', 'cost\_center'.\*\*Ticketing & Expense Core:\*\* 'tickets', 'ticket\_history',
- `ticket\_logs`, `expense\_category`, `bills`, `re\_ticket\_details`, `reimbursement\_history`, `adv\_ticket\_details`, `pro\_ticket\_details`, `travels`, `accommodation`, `food`, `vehicles`.
- \*\*Financial Ledgers:\*\* `ledgers`, `categories`.
- \*\*System Configuration:\*\* `master\_status`, `levels`, `menus`,
   `payment\_mode`, `payment\_route`.
- \*\*HR & Employee Data:\*\* `employees`, `employee\_history`,
   `pf\_details`.
- \*\*Reporting:\*\* `reports`, `report\_history`, `report\_logs`.
- \*\*Banking:\*\* `user\_bank`, `vendors`, `vendor\_bank`.
- \*\*Academic Modules:\*\* `academic\_year`, `academic\_entity`,
   `academic\_organization`, `academic\_cost\_center`,
   `academic\_expense\_category`.
- This list highlights the comprehensive nature of the initial database, indicating a system designed from the outset to handle various aspects of organizational
- operations.

# Phase 1: New Creations (April 2025)

April 2025 marked the beginning of documented schema enhancements with the introduction of new tables designed to add more specific financial and organizational classifications.

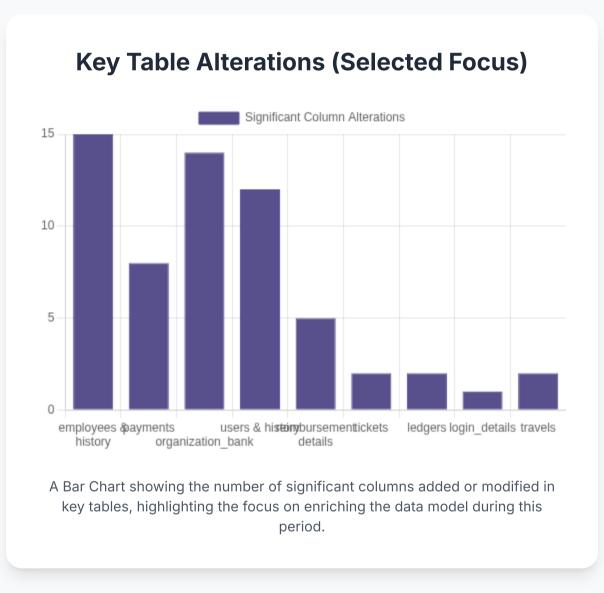




## Phase 2: Hardening & Enrichment (Late April - May 2025)

This phase focused on refining the data model for greater detail, consistency, and integrity. Changes involved making structures more granular and adding constraints to prevent bad data.



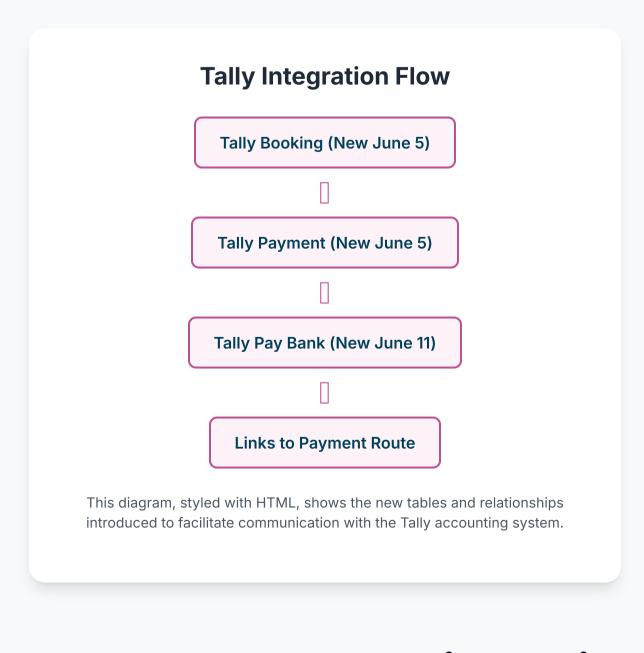


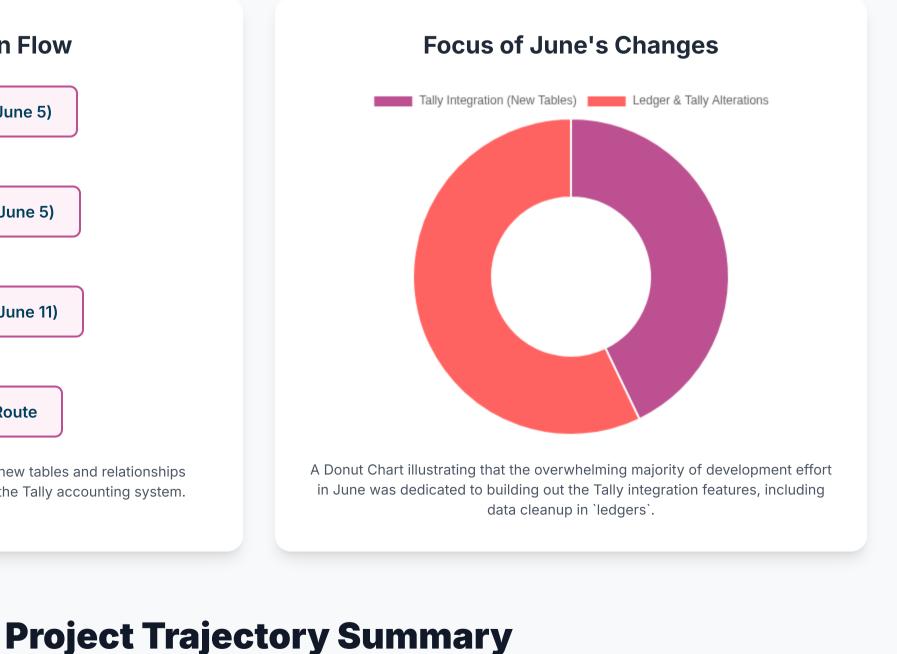
#### **Database Schema Refinements** Beyond just adding new columns, this phase involved extensive modifications to existing tables to enhance data capacity and structure. \*\*Expanded VARCHAR Lengths:\*\* Numerous columns across `employees`, `employee\_history`, `users`, `user\_history`, `user\_bank`, `vendor\_bank`, and `travels` saw increased `VARCHAR` lengths for fields like names, emails, job titles, and bank details, accommodating more diverse and longer data entries. The 'organization\_bank' table also saw significant additions and renames, including client code and bank contact details. • \*\*Transient Tables:\*\* The `bill\_history` and `edit\_history` tables were subject to creation and subsequent drops within this period (as per commented out sections in the SQL log), indicating iterative development and potential restructuring of how historical data or billing information was managed. \*\*New Table:\*\* `role\_actions` was created (May 23) to manage permissions more granularly. **Unique Tickets Unique Reports Unique Payments** `unique\_report\_code` `unique\_ticket\_number `unique\_transaction\_id' Unicode pictographs illustrate the addition of 'UNIQUE' constraints to critical tables ('reports', 'tickets', 'payments') on May 3, preventing duplicate entries and ensuring

# Phase 3: Enterprise Integration (June 2025) The final phase recorded in the log marks a significant step: connecting the df\_ticketing

system reliability.

system to external enterprise software, specifically for Tally accounting integration.





## A high-level view of the schema modifications across the entire period, showing the types of changes that dominated each month of development.

