**action\_events:**

**Row count: 450. (querry used: SELECT COUNT(\*) FROM action\_events; )**

Model\_id\_nulls: 13, original nulls: 351 , changes nulls: 262. (**querry used to calculate the number of null values**: SELECT

SUM(CASE WHEN id IS NULL THEN 1 ELSE 0 END) AS id\_nulls,

SUM(CASE WHEN batch\_id IS NULL THEN 1 ELSE 0 END) AS batch\_id\_nulls,

SUM(CASE WHEN user\_id IS NULL THEN 1 ELSE 0 END) AS user\_id\_nulls,

SUM(CASE WHEN name IS NULL THEN 1 ELSE 0 END) AS name\_nulls,

SUM(CASE WHEN actionable\_type IS NULL THEN 1 ELSE 0 END) AS actionable\_type\_nulls,

SUM(CASE WHEN actionable\_id IS NULL THEN 1 ELSE 0 END) AS actionable\_id\_nulls,

SUM(CASE WHEN target\_type IS NULL THEN 1 ELSE 0 END) AS target\_type\_nulls,

SUM(CASE WHEN target\_id IS NULL THEN 1 ELSE 0 END) AS target\_id\_nulls,

SUM(CASE WHEN model\_type IS NULL THEN 1 ELSE 0 END) AS model\_type\_nulls,

SUM(CASE WHEN model\_id IS NULL THEN 1 ELSE 0 END) AS model\_id\_nulls,

SUM(CASE WHEN fields IS NULL THEN 1 ELSE 0 END) AS fields\_nulls,

SUM(CASE WHEN status IS NULL THEN 1 ELSE 0 END) AS status\_nulls,

SUM(CASE WHEN exception IS NULL THEN 1 ELSE 0 END) AS exception\_nulls,

SUM(CASE WHEN created\_at IS NULL THEN 1 ELSE 0 END) AS created\_at\_nulls,

SUM(CASE WHEN updated\_at IS NULL THEN 1 ELSE 0 END) AS updated\_at\_nulls,

SUM(CASE WHEN original IS NULL THEN 1 ELSE 0 END) AS original\_nulls,

SUM(CASE WHEN changes IS NULL THEN 1 ELSE 0 END) AS changes\_nulls

FROM action\_events;)

Use **: DESCRIBE table\_name**; to desibe each column type .

For the description

**-- For categorical**

**SELECT column\_name, COUNT(\*) AS count**

**FROM table\_name**

**GROUP BY column\_name**

**ORDER BY count DESC;**

**-- For numeric**

**SELECT MIN(column\_name), MAX(column\_name), AVG(column\_name)**

**FROM table\_name;**

Top Results

App\Models\Bot: 91

App\Models\Chat: 58

App\Models\User: 6

App\Models\Company: 6

App\Models\Menu: 5

App\Models\Category: 5

App\Models\ObjectItem: 5

App\Models\Media: 5

Users: user\_id (pk), name, email, email\_verified\_at (null all ), created\_at, updated\_at, phone(all nulls), dob(all nulls), photo(all nulls)

**Row count: 6 the null columns can be dropped because they hold no insights.**

**User\_id:**

photo: TEXT (NULL)

insights:

All names appear exactly once

bob

Georges Mansour

Selma Ouiguini

CTO

Golden Ivory

Jad Fawaz

Most Frequent Email Domains

xpertbot.online: 3

panelys.com: 2

gmail.com: 1

**Bot\_user :**

**Total rows: 13 , created\_at\_nulls: 13updated\_at\_nulls: 13**

Drop all nulls columns.

id: INTEGER

bot\_id: INTEGER

user\_id: INTEGER

created\_at: DATETIME (NULL)

updated\_at: DATETIME (NULL)

Insights

User Activity: User with user\_id = 2 is the most active, associated with 8 bots.

Bot Popularity: Bots with bot\_id = 7, 12, and 15 are the most assigned (2-3 times each).

Missing Timestamps: created\_at and updated\_at are missing for all entries.

Bots:

**Row count: 10 , main\_location\_nulls: 2 (IDs 15, 16), opening\_hours\_nulls: 2 (IDs 15, 16)**

unavailable\_message\_nulls: 5 (IDs 1, 5, 7, 10, 14), limit\_nulls: 8 (Only IDs 14, 15 have values)

assistant\_id\_nulls: 8 (Only IDs 2, 15 have values)

vector\_store\_id\_nulls: 9 (Only ID 2 has a value), thread\_id\_nulls: 10 (All NULL)

Key Insights

Active Bots: 6/10 bots are active (status = 1).

Language Preference: English is dominant (6/10 bots).

Model Standardization: 9/10 use gpt-4o-mini (check IDs 15-16 for possible typo).

Category Spread: Evenly distributed across 3 categories.

Missing Data: thread\_id is unused; limit and integration IDs (assistant\_id, vector\_store\_id) are mostly NULL.

Categories: category\_id(pk), name , created\_at , updated\_at

**Row count: 5 , no null values,**

Key Insights

Completeness: The table is fully populated with no missing values.

Uniqueness: All category names are distinct.

ID Range: IDs range from 1 to 5 (average 3).

Timestamps: created\_at and updated\_at are identical for each record, suggesting automated creation without subsequent updates.

**Posts :**

Table is empty. (cant get insights from)

Analysis:

- Records: Header only

- Nullable fields: published\_at

- Expected distributions

- status: Likely mostly 'published'

- published\_at: NULL for drafts

**Post\_photo :**

Table is empty

**Analysis:**

- Records: Header only (no data rows)

- All fields appear required (no NULLs in header)

- Expected distributions

- is\_cover: Likely mostly false (only 1 cover per post)

- post\_id: Foreign key distribution matching posts

**Refugees:**

Empty table.

Analysis

- Records: Header only

- High nullability expected in

- emergency\_contact, health\_info, dependents\_details

- Key distributions

- gender: Likely balanced male/female

- dependents\_count: Right-skewed (mostly 0-3)

**Plans:**

Count rows: 3, no nulls , // Analysis

- Records: 3 plans (Basic, Standard, Premium)

- No NULLs in sample data

- Price distributions

- monthly\_price: 60, 150, 300 (clear tiers)

- yearly\_price: Exactly 12x monthly (100% discount)

- Limits show clear progression

- 3d\_items\_limit: 10 → 50 → 100

- api\_limit: 1000 → 5000 → 10000

**Orders:**

**Count rows: 5,**

**Analysis:**

- Records: 5 orders

- NULLs

- 3/5 have NULL delivery\_address

- All estimated\_delivery\_time are NULL

- Status distribution

- delivered: 3

- ready: 1

- pending: 1

- Total amounts: 5500-19500 range

- Customer "Hussein" appears twice (repeat customer)

**Order\_items:**

**Count rows: 8 drop column special\_instructions cuz it is all null**

**Analysis:**

- Records: 8 order items

- NULLs: All special\_instructions are NULL

- Distributions

- quantity: All 1 (no multi-quantity orders)

- unit\_price: Ranges 5500-10500 (currency?)

- menu\_item\_id: 44 and 71 appear twice (popular items)

**Menus:**

**Count rows: 4**

**Analysis:**

- Records: 4 menus

- No NULL values in sample data

- All menus use "FCFA" currency except one with "Fcfa" (inconsistency)

- All PDF paths follow similar pattern

- Time between creation and update varies (Em Sherif updated 4 days later)

**Menu\_items:**

**Count rows: 139**

**Analysis:**

- Records: 139 items (92 from menu\_id=1, 4 from menu\_id=3, 43 from menu\_id=4)

- No NULL values except some empty descriptions in menu\_id=4

- Price distribution

- Menu 1: 4000-13500 FCFA (avg ~7500)

- Menu 3: 15000-75000 FCFA (luxury shoes)

- Menu 4: 1000-17000 FCFA

- Calorie insights

- Highest: "BURGER EM SHERIF" (600 cal)

- Lowest: Shisha items (0-200 cal)

- Popular categories in Menu 1

- Breakfast items (4000-8500 FCFA)

- Salads (6500-12000 FCFA)

- Desserts (7000-9500 FCFA)

**Objects:**

Count row : 1

**Analysis:**

- Only 1 record ("test object")

- menu\_item\_id=0 suggests possible missing foreign key

- File type: .usdz (3D object format)

**Companies:**

**Analysis:**

- Records: 7 companies

- NULLs

- 5/7 have no notes

- 5/7 have no website

- Business types

- 6 Restaurants

- 1 Shoes store

- Location

- 5 in Iraq (Baghdad)

- 2 in Cote d'Ivoire

- Marketing insights

- Only 2 have Instagram handles

- None are verified or contacted

- Only Rico Cafe has marketing notes

**Clients:**

Row count : 1001 clients .

1. ID Field

Sequential from 1 to 1001 with no gaps (except for missing ID 127)

This appears to be a standard auto-incrementing primary key

2. Name Field Analysis

The name field contains a variety of formats and special characters

Regular names: 65-70% (e.g., "Bob", "Moe Alameh", "Samer")

Special characters/emojis: ~15% (e.g., "👋🏻", ":)", "💎", "👨‍💻")

Symbolic names: ~10% (e.g., ".", "~", "\*", "~~~~")

Arabic names: ~5% (e.g., "ابو فاطمة", "َِ𝙃َِ𝘼َِ𝙒َِ𝙍َِ𝘼َِ𝘼 ✗")

Stylized names: ~10% (e.g., "𝑲𝑰𝑵𝑮 𝑨𝑵𝑻𝑯𝑶𝑵𝒀 07", "𝓐𝓱𝓶𝓪𝓭 𝓙𝓸𝓫𝓼 ")

Notable patterns

Many names use special formatting (Unicode, emojis, symbols)

Some names appear to be placeholders or non-standard entries

Multiple "Bob" variations (regular Bob, Bob CI, Not Bob)

Several entries with just punctuation marks

3. Timestamp Analysis (created\_at/updated\_at)

Date Range

Earliest: 2024-08-19

Latest: 2025-01-15

Key Insights

The timestamps in created\_at and updated\_at are identical for all records, suggesting

Records are never updated after creation

Or the system doesn't track updates separately

Distribution over time

Peak activity in September 2024 (especially around 09-24)

Steady decline in new records after October 2024

Very few records in December 2024 and January 2025

Duplicate names

Multiple clients share the same name (e.g., 19 "Ali" variations, 8 "Ahmad" variations)

Some names appear to be test entries ("test user name", "Bob Test")

Chats: id(pk), client\_id(fk), question, answer, created\_at, updated\_at, bot\_id(fk), type(Null), image\_url(Null), audio\_url(Null)

1200 rows.

The dataset contains 1200 chat interactions between users and a travel assistant chatbot focused on Beirut Airport flight information. The data includes

User questions about flight arrivals, departures, destinations, and general inquiries

Bot responses providing flight details or requesting more information

Conversations in multiple languages (English, French, Arabic)

Some restaurant-related queries towards the end (appears to be a different bot function)

Key Observations

Flight Information Focus

Most queries are about flight status, arrival/departure times, and destinations from Beirut Airport

The bot handles requests for specific flights, countries, and airlines

Multilingual Support

Conversations occur in English, French, and Arabic

The bot responds appropriately in the language used by the user

Common Query Types

Flight status checks ("did my flight from Paris arrive?")

Destination inquiries ("flights to Dubai")

Departure/arrival times ("when is the next flight to Italy?")

General airport information

Bot Capabilities

Provides detailed flight information when available

Requests flight numbers when information is unclear

Handles some non-flight questions about its origin/creator

Politely declines inappropriate requests

Data Quality

Mostly clean with proper timestamps

Some duplicate or near-duplicate entries

A few test messages ("this is a text message")

This is will be further analyzed in the next phases(NLP )

Assistant\_threads: id(pk), wa\_id(fk), bot\_id (fk), last\_activity, created\_at, updated-at.

Record count: 5

Null values: None detected

Fields

id, wa\_id, bot\_id, thread\_id, last\_activity, created\_at, updated\_at

Key insights

All records belong to bot\_id=2

Activity spans from 2025-06-20 to 2025-07-12

Most recent activity was on 2025-07-12 (record id=5)

Oldest record created on 2025-06-20 (record id=1)

Devices: device\_id(pk), serial\_id(fk), brand, user\_id, created\_at, updated-at.

Record count: 0 (empty file)

Fields: id, device\_id, serial\_id, brand, user\_id, created\_at, updated\_at

**Flows:**

Record count: 1

Null values: None detected

**Fields:**

Key insights

Only one flow named "Welcome Flow of Em Sherif" for bot\_id=2

Created on 2024-09-07 and never updated since creation

Knowledge: id(pk), bot\_id(fk), question, answer, created\_at, updated-at.

Record count: 33

Null values: None detected

Key insights

All records belong to bot\_id=7

All created and updated on 2024-09-12 at the same timestamp

Comprehensive FAQ about Push CI services (financial platform)

Covers topics from card types, fees, services to contact information

Notifications: id(pk), title, message, user\_id(pk), seen, created\_at, updated-at.

Record count: 0 (empty file)

**Fields:** id, title, message, user\_id, seen, created\_at, updated\_at

*Drop table o\_t\_p\_s: not connected to anything and empty.*

Record count: 0 (empty file)

Fields: id, email, otp, created\_at, updated\_at

**Restaurant:**

id(pk), name, logo, menu, location, country, village, address, latitude, longitude, opening\_hours, phone\_number, created\_at, updated\_at, menu\_json, welcome\_message, bot\_id(fk).

Record count: 1

Null values

address: NULL

Some menu items have empty Description fields

Fields: 18 columns including id, name, location, menu details, etc.

Key insights

Single restaurant "Sept Tables" in Abidjan, Côte d'Ivoire

Comprehensive menu with 50+ items across categories (PLATS, TAPAS, BURGERS, etc.)

Open daily from 10 AM to 11 PM (extended to 11:30 PM on Saturdays)

Menu prices range from 1,000 Fcfa (water) to 17,000 Fcfa (Pavé de Saumon)

Connected to bot\_id=15

**Media:**

Record count: 24

Null values

metadata: NULL for records 21-24

Some color descriptions missing for earlier records

Fields: id, mediable\_id, mediable\_type, type, url, metadata, created\_at, updated\_at

Key insights

All records relate to MenuItem (App\Models\MenuItem)

Primarily photos (type=photo) of menu items

Most have color descriptions in metadata

Recent items (21-24) lack metadata descriptions

Activity clustered in September 2024 and January 2025

Migration: id(pk), migration, batch.

Record count: 62

Null values: None

Fields: id, migration, batch

Key insights

Shows database evolution from 2014 to 2025

Recent additions focus on

Restaurant systems (2025)

Assistant features (mid-2025)

Order management (June 2025)

Bot-related features added September 2024

Batch numbers show grouped migrations

*Password reset can be dropped cuz no insights can be gotten from it : email, token, created\_at.*

Record count: 0 (empty)

Fields: email, token, created\_at

Personal\_access\_tokens: id(pk), tokenable\_type, tokenable\_id, name, token, abilities, last\_used\_at, expires\_at, created\_at, updated\_at.

Record count: 0 (empty)

Fields: 9 columns including tokenable info, abilities, expiration

States: id, flow\_id, name, message\_type, message\_content, next\_state\_is, created\_at, updated\_at.

Record count: 2

Null values

next\_state\_id: NULL for record 2

Fields: id, flow\_id, name, message\_type, message\_content, next\_state\_id, created\_at, updated\_at

Key insights

Both states belong to flow\_id=1

Creates a simple conversation flow

Welcome message

Option selection (Continue, Menu, Instagram)

Created on 2024-09-07 for what appears to be "Emsherif Cafe ChatBot"

Failed\_jobs: id(pk), entry\_uuid(fk) , connection, queue, payload, exception, failed\_at.

Record count: 0 (empty)

Fields: id, uuid, connection, queue, payload, exception, failed\_at

Telescope\_monitoring: tag

Columns: tag (only column)

Observations

Empty file (no data rows).

Expected to log monitoring tags (e.g., scheduled tasks, health checks).

Action: Verify if this is intentional (e.g., no monitoring enabled) or a logging issue.

Telescope\_entries\_tags: entry\_uuid(pk), tag

Total records: 25

Unique entry\_uuids: 25 (no duplicates)

Unique tags: 2

Auth:2: 24 records

App\Models\User: 1 record

*Telescope\_entries: sequence, entry\_uuid(fk), batch\_id, family\_hash, should\_display\_on\_index, type, content, created\_at. ./// 997 rows, family\_hash is all nulls it can be dropped.*

Records by type

exception: 4.0%)

view: (91.5%)

request: (4.5%)

Nova\_field\_attachments: id(pk), attachable\_type, attachable\_id, attachment, disk, url, created\_at, updated\_at.

Columns:  
id, attachable\_type, attachable\_id, attachment, disk, url, created\_at, updated\_at

Observations

Empty file (no attachments saved).

Schema indicates polymorphic relationships (attachable\_type/id) for file attachments.

Action: Investigate if file uploads are being processed but not persisted.

**Nova\_notifications:**

Columns:  
id, type, notifiable\_type, notifiable\_id, data, read\_at, created\_at, updated\_at, deleted\_at

Observations

Empty file (no notifications logged).

Schema suggests it tracks notifications (e.g., user alerts), with support for soft deletes (deleted\_at).

Action: Check if notifications are being triggered but not recorded.

Nova\_pending\_field\_attachements: id(pk), draft\_id, attachment, disk, created\_at, updated\_at.

Observations

Empty file (no pending attachments).

Likely stores temporary uploads (e.g., unsaved Nova resource files).

Action: Confirm file upload functionality is working as expected.