



PADDYPOWER.

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Planificarea

Traseul datelor de la sursă la raportare

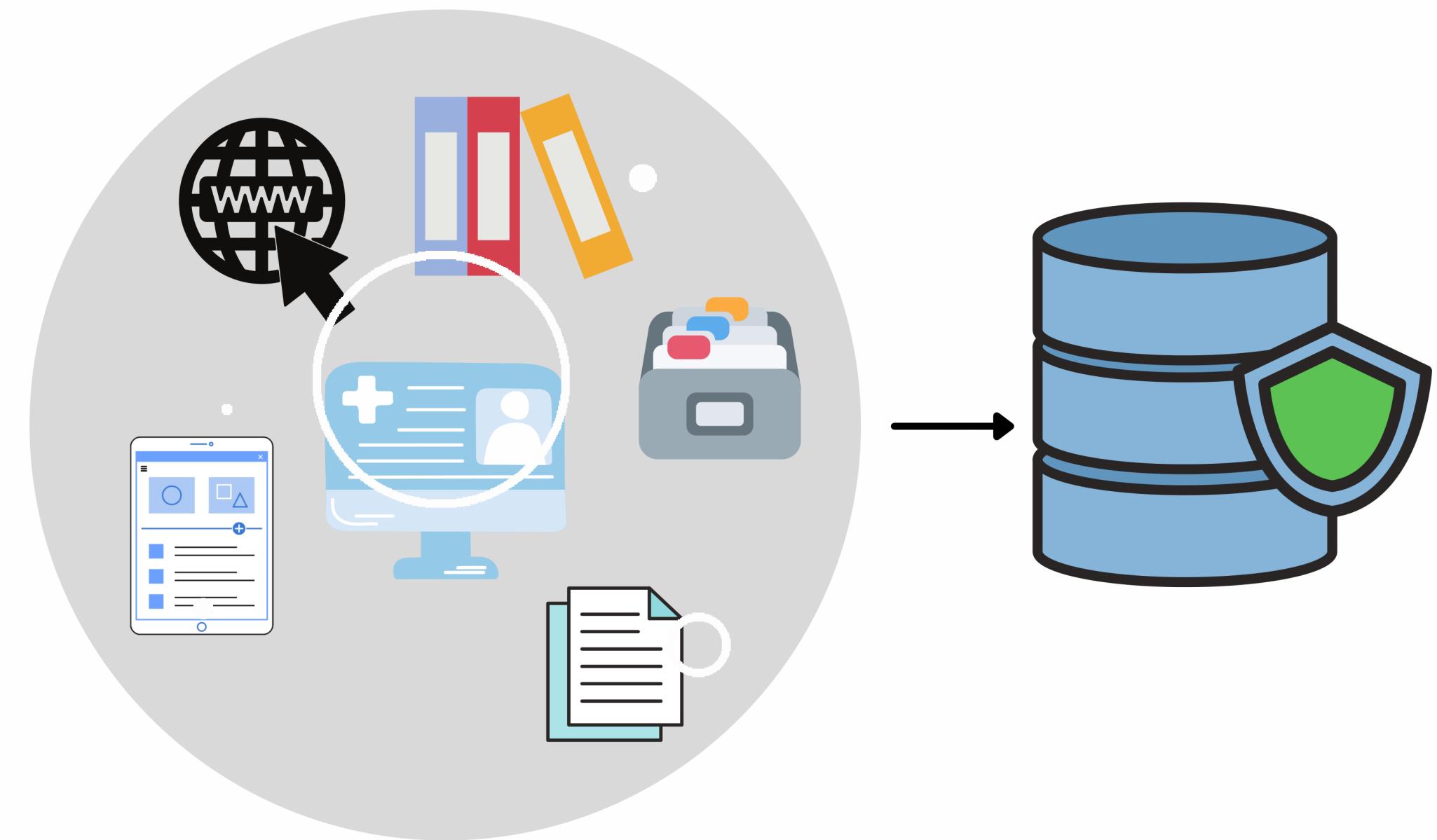


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Traseul datelor de la sursă la raportare

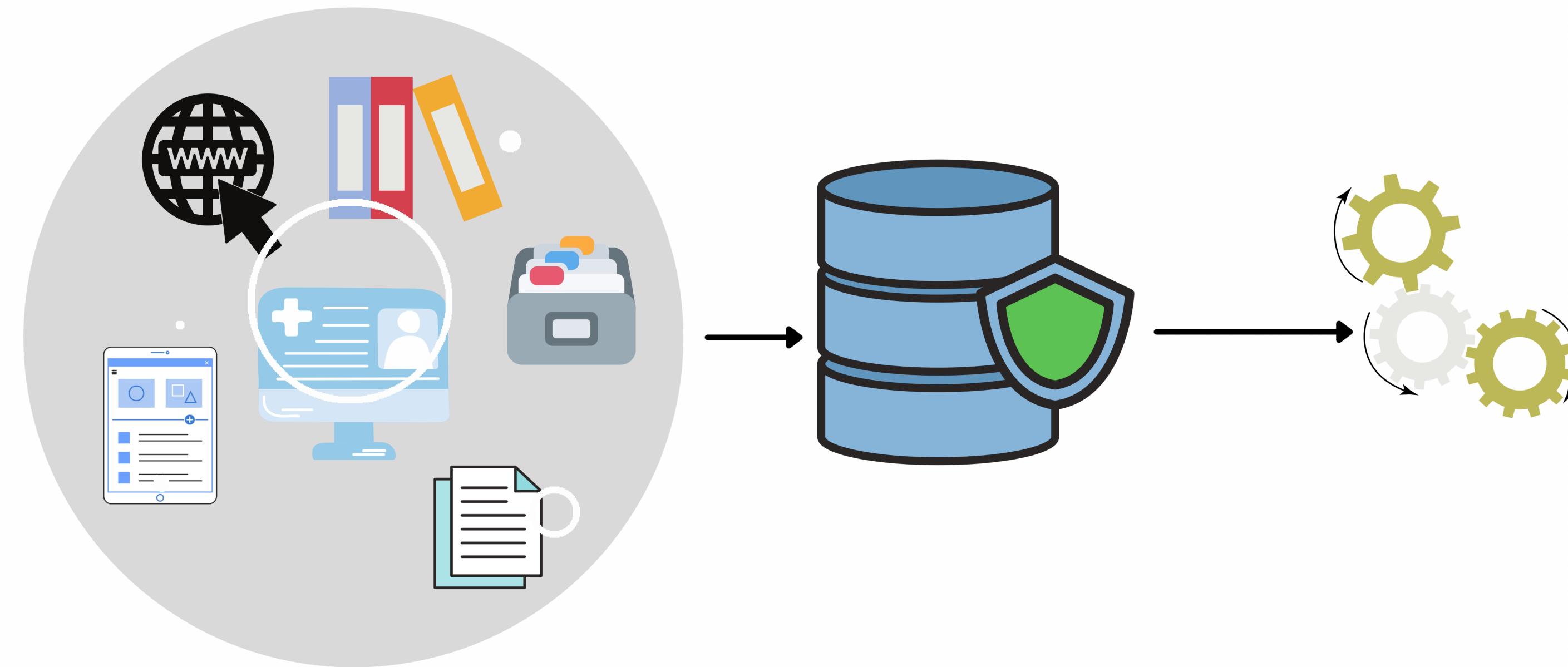


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Traseul datelor de la sursă la raportare

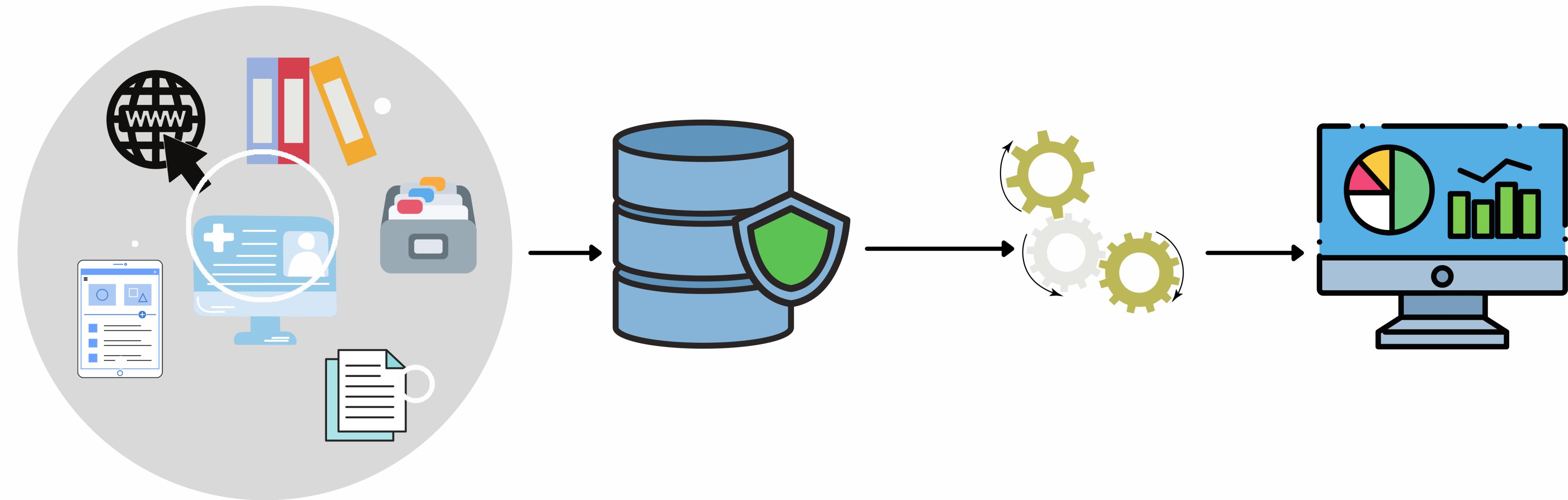


Planificarea

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Traseul datelor de la sursă la raportare



Arhitectura bazei de date



Arhitectura bazei de date



- Structura obiectelor și relațiile dintre ele
- Chei primare / unice
- Chei străine
- Tipuri de date
- Indexări
- Triggers

Arhitectura bazei de date



Arhitectura bazei de date



Account

Arhitectura bazei de date



Account

Song

Arhitectura bazei de date



Account

Song

Band

Arhitectura bazei de date



Account

Song

Band

Album

Arhitectura bazei de date



Account

Song

Band

Album

Artist

Arhitectura bazei de date



Account

Streams

Song

Band

Album

Artist

Arhitectura bazei de date



Account

Streams

Favourites

Song

Band

Album

Artist

Arhitectura bazei de date



Account

Date

Song

Streams

Favourites

Band

Album

Artist

Arhitectura bazei de date



Crearea obiectelor in BQ



- Proiect nou în Google Cloud Platform
- Dataset nou în BigQuery
 - Tabele noi în dataset -> pe baza de schemă sau completarea fiecărei coloane
- (Optional) Un bucket nou in Google Storage
- Popularea tabelelor cu date de test
 - Mockaroo -> încărcare fișiere csv în Google Storage
 - Faker -> generare date de test cu ajutorul librăriei Faker

Crearea obiectelor in BQ



Viewing pinned projects.

music-streaming-332016



Open



Create dataset



Create dataset

Project ID

music-streaming-332016

CHANGE

Dataset ID *

star_schema

Letters, numbers, and underscores allowed

Data location

europe-west6 (Zurich)



Default table expiration

Enable table expiration

Default maximum table age

Days

Encryption

Google-managed encryption key

No configuration required

Customer-managed encryption key (CMEK)

Manage via Google Cloud Key Management Service

CREATE DATASET

CANCEL

Crearea obiectelor in BQ

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Viewing pinned projects.

music-streaming-332016



Open

Delete

Create table



Create table

Source

Create table from
Empty table

Destination

Project * music-streaming-332016 [BROWSE](#)

Dataset ID * star_schema

Table name * dim_account

Unicode letters, marks, numbers, connectors, dashes or spaces allowed.

Table type Native table

Schema

Edit as text

Field name	Type	Mode	Description
account_id	INTEGER	REQUIRED	
first_name	STRING	NULLABLE	
last_name	STRING	NULLABLE	

CREATE TABLE

CANCEL

Generarea datelor de test

PADDYPOWER.

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Optiunea 1: Mockaroo + Încărcare fisier csv in Google Storage

The Mockaroo interface allows users to define the schema for generated test data. It includes fields for Field Name, Type, and Options (blank percentage and sum button). The schema defined here matches the Google Storage file.

Field Name	Type	Options
id	Row Number	blank: 0 % <input type="button" value="Σ"/> X
first_name	First Name	blank: 0 % <input type="button" value="Σ"/> X
last_name	Last Name	blank: 0 % <input type="button" value="Σ"/> X
email	Email Address	blank: 0 % <input type="button" value="Σ"/> X
gender	Gender	blank: 0 % <input type="button" value="Σ"/> X
ip_address	IP Address v4	blank: 0 % <input type="button" value="Σ"/> X

Below the schema, there are settings for the number of rows (1000), format (CSV), line ending (Unix (LF)), and inclusion of header and BOM. At the bottom, there are buttons for DOWNLOAD DATA, PREVIEW, SAVE THIS SCHEMA, and MORE.

Create table

Source

Create table from
Google Cloud Storage

Select file from GCS bucket *

music-streaming/dim_account.csv

BROWSE

File format
CSV

Source Data Partitioning

Destination

Project *
music-streaming-332016

BROWSE

Dataset ID *
star_schema

Table name *
dim_account

Unicode letters, marks, numbers, connectors, dashes or spaces allowed.

Table type
Native table

Schema

Auto detect

Edit as text

Generarea datelor de test

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Optiunea 2: generarea datelor de test cu ajutorul librăriei Faker

În acest caz, trebuie să încarcăm un fișier ajutător în Google Storage care conține librăria și să creăm funcțiile de generare de date.

The screenshot shows the Google Cloud Storage interface. On the left, there's a sidebar with icons for Cloud Storage (selected), Browser (highlighted in blue), Monitoring, and Settings. The main area shows a bucket named "music-streaming". The bucket details are as follows:

Location	Storage class	Public access	Protection
europe-west6 (Zurich)	Standard	Not public	None

Below the bucket details, there are tabs for OBJECTS, CONFIGURATION, PERMISSIONS, PROTECTION, and LII. The OBJECTS tab is selected. Under the OBJECTS tab, there's a breadcrumb navigation: Buckets > music-streaming. Below the breadcrumb are buttons for UPLOAD FILES, UPLOAD FOLDER, CREATE FOLDER, and MANAGE HOLDS. There are also filters for "Filter by name prefix only" and "Filter objects and folders". A table lists objects in the bucket:

	Name	Size	Type
<input type="checkbox"/>	faker.js	52 B	application/x-javascript

Generarea datelor de test

PADDYPOWER.

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Optiunea 2: generarea datelor de test cu ajutorul librăriei Faker



```
1  /** Generator function */
2  CREATE TEMP FUNCTION dummy_account()
3  RETURNS STRUCT<account_id Int,
4          full_name String,
5          email_address String,
6          date_of_birth Timestamp,
7          gender String,
8          address Struct<street_name String,
9                      street_number Int,
10                     city String
11                    >,
12                    country String
13                  >
14 LANGUAGE js
15 AS """
16 var faker = getFaker()
17 var dummy_account = {};
18
19 dummy_account.account_id = faker.random.number();
20 dummy_account.full_name = faker.name.findName();
21 dummy_account.email_address = faker.internet.email();
22 dummy_account.date_of_birth = faker.date.past();
23 let genders = [ 'F' , 'M' ];
24 dummy_account.gender = faker.random.arrayElement(genders);
25 dummy_account.country = faker.address.country();
26
39    /** Insert 1000 dummy records */
40    INSERT INTO
41      `music-streaming-332016.star_schema.dim_account`
42      (SELECT dummy_account().* from UNNEST(GENERATE_ARRAY(1, 1000)));
43
44    select * from `music-streaming-332016.star_schema.dim_account` ;
45
```

Toate resursele sunt disponibile aici:
https://github.com/autrefois/bi_resources