SUB-TABLES

1) Regional Distribution

Description

The **Regional-Table** sub-table contains geographic information about learners, enabling analysis of applicant distribution by location. This sub-table supports dashboard visualizations such as maps or bar charts to show where applicants are from, which is critical for understanding regional engagement. Since a learner can enroll in multiple programs, resulting in duplicate learner_id values in the new_master_table, this sub-table includes only one row per learner_id to avoid redundant geographic data.

Columns:

- learner id: Unique identifier for each learner (VARCHAR, primary key).
- country: Learner's country of residence (VARCHAR).
- state: Learner's state or region (VARCHAR).
- city: Learner's city of residence (VARCHAR).
- zip: Learner's postal code (VARCHAR).

Purpose: Used for the "Regional Distribution" page of the dashboard to analyze geographic trends, such as the number of applicants by country or state.

SQL Code

```
-- Create the regional_distribution sub-table

CREATE TABLE regional_distribution (
    learner_id VARCHAR(50),
    country VARCHAR(100),
    state VARCHAR(100),
    city VARCHAR(100),
    zip VARCHAR(20),
    PRIMARY KEY (learner_id)

);

-- Insert data, keeping only one row per learner_id

INSERT INTO regional_distribution (learner_id, country, state, city, zip)

SELECT DISTINCT ON (learner_id) learner_id, country, state, city, zip)

FROM new master table
```

ORDER BY learner id, user last modified date DESC;

WHERE learner id IS NOT NULL

[PK] character varying (50) 00004f18-8b86-4fe4-ad7e-6c8d988f53... 460103 2 00006478-745f-49bf-b126-02584e8307... Nigeria [null] [null] [null] 3 00010567-1336-433c-a941-a612b3d2f... NAKURU NAIVASHA 20117 00011c80-0c5c-4601-9696-b3ca787e2... [null] [null] [null] Bangladesh 5 000141a7-4c82-401f-a2e6-dd12b4b260... Nigeria [null] [null] [null] 0001ca2c-7bec-4a33-833c-b844a29f4d... Abuja FCT Abuja 0003bed9-d9d9-49a7-a755-a9562aaa0... PUNJAB 64100 0003dac8-45a1-40d0-9c9b-9c3cfb7060... 208010 Uttarpradesh 0004295c-717e-4953-b3bf-fff2daf0e903 101242 00049a81-94a9-4b25-92ed-62d017f3b... Philippines Rizal Antipolo 1870

2) Demographics

Description

The **Demographics** sub-table contains demographic information about learners, enabling analysis of applicant characteristics such as gender and age. This sub-table supports dashboard visualizations like pie charts for gender distribution or histograms for age distribution, helping identify demographic trends. Since a learner can enroll in multiple programs, resulting in duplicate learner_id values in the new_master_table, this sub-table includes only one row per learner id to avoid redundant demographic data.

Columns:

- learner id: Unique identifier for each learner (VARCHAR, primary key).
- gender: Learner's gender (VARCHAR, e.g., Male, Female, Non-binary).
- birth date: Learner's date of birth (DATE), used to calculate age.

Purpose: Used for the "Demographics" page of the dashboard to analyze applicant demographics, such as gender distribution or age group trends.

SQL Code

-- Create the demographics sub-table

```
CREATE TABLE demographics (
learner_id VARCHAR(50),
gender VARCHAR(50),
birth_date DATE,
PRIMARY KEY (learner_id)
);

-- Insert data, keeping only one row per learner_id
INSERT INTO demographics (learner_id, gender, birth_date)
SELECT DISTINCT ON (learner_id) learner_id, gender, birth_date
FROM new_master_table
WHERE learner_id IS NOT NULL
ORDER BY learner id, user last modified date DESC;
```

| | learner_id [PK] character varying (50) | gender character varying (50) | birth_date date |
|----|--|-------------------------------|-----------------|
| 1 | 00004f18-8b86-4fe4-ad7e-6c8d988f53 | Male | 2001-06-23 |
| 2 | 00006478-745f-49bf-b126-02584e8307 | [null] | [null] |
| 3 | 00010567-1336-433c-a941-a612b3d2f | Female | 1996-05-04 |
| 4 | 00011c80-0c5c-4601-9696-b3ca787e2 | [null] | [null] |
| 5 | 000141a7-4c82-401f-a2e6-dd12b4b260 | [null] | [null] |
| 6 | 0001ca2c-7bec-4a33-833c-b844a29f4d | Male | 1986-06-06 |
| 7 | 0003bed9-d9d9-49a7-a755-a9562aaa0 | Male | 1999-04-12 |
| 8 | 0003dac8-45a1-40d0-9c9b-9c3cfb7060 | Male | 2006-06-15 |
| 9 | 0004295c-717e-4953-b3bf-fff2daf0e903 | Male | 2002-07-08 |
| 10 | 00049a81-94a9-4b25-92ed-62d017f3b | Female | 1988-08-11 |

3) Academic Background

Description

The Academic Background sub-table contains information about learners' educational profiles, enabling analysis of their academic qualifications. This sub-table supports dashboard visualizations like bar charts for popular majors or tables for degree and institution breakdowns, helping identify educational trends among applicants. Since a learner can enroll in multiple programs, resulting in duplicate learner_id values in the new master table, this sub-table includes only one row per learner id to avoid redundant academic data.

Columns:

- learner id: Unique identifier for each learner (VARCHAR, primary key).
- degree: Learner's academic degree (VARCHAR, e.g., Bachelor's, Master's).
- institution: Name of the educational institution (VARCHAR).
- major: Learner's field of study (VARCHAR, e.g., Computer Science, Biology).

Purpose: Used for the "Academic Background" page of the dashboard to analyze applicants' educational profiles, such as the distribution of degrees or popular majors.

SQL Code

```
-- Create the academic_background sub-table
CREATE TABLE academic_background (
    learner_id VARCHAR(50),
    degree VARCHAR(100),
    institution VARCHAR(200),
    major VARCHAR(100),
    PRIMARY KEY (learner_id)
);
-- Insert data, keeping only one row per learner_id
INSERT INTO academic_background (learner_id, degree, institution, major)
SELECT DISTINCT ON (learner_id) learner_id, degree, institution, major
FROM new_master_table
WHERE learner_id IS NOT NULL
ORDER BY learner id, user last modified date DESC;
```

| | learner_id [PK] character varying (50) | degree character varying (200) | institution character varying (200) | major character varying (200) |
|----|--|--------------------------------|---|-------------------------------|
| 1 | 00004f18-8b86-4fe4-ad7e-6c8d988f53 | Undergraduate Student | Federal University of Technology Owerru | Civil Engineering |
| 2 | 00006478-745f-49bf-b126-02584e8307 | [null] | [null] | [null] |
| 3 | 00010567-1336-433c-a941-a612b3d2f | Graduate Student | UNICAF UNIVERSITY | Environmental Sustainability |
| 4 | 00011c80-0c5c-4601-9696-b3ca787e2 | [null] | [null] | [null] |
| 5 | 000141a7-4c82-401f-a2e6-dd12b4b260 | [null] | [null] | [null] |
| 6 | 0001ca2c-7bec-4a33-833c-b844a29f4d | Graduate Student | Nasarawa State University, Keffi | Accounting |
| 7 | 0003bed9-d9d9-49a7-a755-a9562aaa0 | Graduate Student | CTTI College KP Campus | Part Time |
| 8 | 0003dac8-45a1-40d0-9c9b-9c3cfb7060 | Undergraduate Student | Allenhouse institute of technology | Electronics and Communication |
| 9 | 0004295c-717e-4953-b3bf-fff2daf0e903 | Undergraduate Student | Caleb University | Computer Science |
| 10 | 00049a81-94a9-4b25-92ed-62d017f3b | Undergraduate Student | Our lady of fatima university | Nursing |

4) Opportunity Details

Description

The Opportunity Details sub-table contains information about learners' program enrollments, enabling analysis of application patterns and opportunity characteristics. This sub-table supports dashboard visualizations like bar charts for applications by category or line charts for application trends over time. Unlike other sub-tables, this table retains all rows for a learner_id from the new_master_table because each row represents a unique program enrollment, as learners can enroll in multiple programs.

Columns:

- learner id: Unique identifier for each learner (VARCHAR).
- opportunity name: Name of the program or course (VARCHAR, e.g., Data Science Bootcamp).
- category: Type of opportunity (VARCHAR, e.g., Scholarship, Internship, Course).
- start date: Start date of the opportunity (DATE).
- end date: End date of the opportunity (DATE).
- apply date: Date the learner applied for the opportunity (DATE).

Purpose: Used for the "Opportunity Details" page of the dashboard to analyze application trends, popular programs, and opportunity durations.

SQL Code

```
-- Create the opportunity details sub-table
CREATE TABLE opportunity details (
  learner id VARCHAR(50),
  opportunity name VARCHAR(200),
  category VARCHAR(100),
  start date DATE,
  end date DATE,
  apply date DATE
);
-- Insert data, keeping all enrollment records
INSERT INTO opportunity details (learner id, opportunity name, category, start date, end date, apply date)
SELECT learner id, opportunity name, category, start date, end date, apply date
FROM new master table
WHERE learner id IS NOT NULL
 AND opportunity name IS NOT NULL
AND apply date IS NOT NULL;
```

| | learner_id character varying (50) | opportunity_name character varying (200) | category character varying (100) | start_date date | end_date date | apply_date date |
|----|--------------------------------------|---|----------------------------------|-----------------|---------------|-----------------|
| 1 | d7b895ac-cc59-4750-acc4-35e9870be0a4 | CPR/AED Certification | Course | 2023-03-28 | 2024-07-03 | 2023-12-14 |
| 2 | b121efdf-7c03-4040-8c3a-69d708bc477f | Digital Marketing Early Internship | Internship | 2024-07-03 | 2024-10-27 | 2024-04-08 |
| 3 | b121efdf-7c03-4040-8c3a-69d708bc477f | Jump Start: Developing your Emotional Intelligence | Course | 2024-03-09 | 2026-02-02 | 2024-04-05 |
| 4 | b1238608-3db7-47a9-8b60-e099274421ea | Career Essentials: Getting Started with Your Professional Journey | Course | 2024-03-09 | 2025-02-20 | 2024-03-15 |
| 5 | b123878a-b852-47a8-9238-06f0ab27c407 | Career Essentials: Getting Started with Your Professional Journey | Course | 2024-10-27 | 2025-10-09 | 2024-11-25 |
| 6 | b124720b-0d93-489a-be75-bf15bc8084ff | Career Essentials: Getting Started with Your Professional Journey | Course | 2022-12-02 | 2024-03-09 | 2023-01-18 |
| 7 | d66ce001-c3fe-4f2e-99a2-6c46403a69a3 | Entrepreneurship and Innovation | Internship | 2023-07-22 | 2023-07-22 | 2023-05-19 |
| 8 | cf4f329e-92ee-4724-b3c0-e42dbbd0c6f8 | Dust Extraction Challenge - Phase 1 | Competition | 2025-02-20 | 2025-02-20 | 2025-01-10 |
| 9 | bcaa39c0-2acd-489b-9a80-93caa5ca851c | Project Management Associate Early Internship | Internship | 2025-02-20 | 2025-02-20 | 2025-02-08 |
| 10 | bcad376d-332f-439e-9a22-520551550b37 | Digital Detox Challenge | Competition | 2025-02-20 | 2025-02-20 | 2025-01-19 |

5) User Account Information

Description

The User Account Information sub-table contains details about learners' account creation and updates, enabling analysis of account activity and data quality. This sub-table supports dashboard visualizations like line charts for account creation trends or tables for account details. Since a learner can enroll in multiple programs, resulting in duplicate learner_id values in the new_master_table, this sub-table includes only one row per learner_id to avoid redundant account data.

Columns:

- learner id: Unique identifier for each learner (VARCHAR, primary key).
- email: Learner's email address (VARCHAR).
- user create date: Date the learner's account was created (DATE).
- user last modified date: Date the learner's account was last updated (DATE).

Purpose: Used for the "User Account Information" page of the dashboard to analyze account creation trends and monitor data freshness.

SQL Code

| | learner_id [PK] character varying (50) | email character varying (255) | user_create_date date | user_last_modified_date date |
|----|--|-------------------------------|-----------------------|------------------------------|
| 1 | 00004f18-8b86-4fe4-ad7e-6c8d988f53 | lilbrianholy@gmail.com | 2023-07-23 | 2023-07-23 |
| 2 | 00006478-745f-49bf-b126-02584e8307 | adeyoyintimileyin@gmail.com | 2024-03-30 | 2024-03-30 |
| 3 | 00010567-1336-433c-a941-a612b3d2f | gikonyosalome19@gmail.com | 2024-11-17 | 2024-11-17 |
| 4 | 00011c80-0c5c-4601-9696-b3ca787e2 | shakibsm32@gmail.com | 2024-12-24 | 2024-12-24 |
| 5 | 000141a7-4c82-401f-a2e6-dd12b4b260 | mandcastle123@gmail.com | 2024-03-31 | 2024-03-31 |
| 6 | 0001ca2c-7bec-4a33-833c-b844a29f4d | samemma07@gmail.com | 2024-11-12 | 2024-11-12 |
| 7 | 0003bed9-d9d9-49a7-a755-a9562aaa0 | survival4426@gmail.com | 2025-02-12 | 2025-02-12 |
| 8 | 0003dac8-45a1-40d0-9c9b-9c3cfb7060 | atiffiroz628@gmail.com | 2025-02-21 | 2025-02-21 |
| 9 | 0004295c-717e-4953-b3bf-fff2daf0e903 | ogunleyetunde.r@gmail.com | 2024-04-11 | 2024-04-11 |
| 10 | 00049a81-94a9-4b25-92ed-62d017f3b | cristinne.nicor@gmail.com | 2024-04-01 | 2024-04-01 |