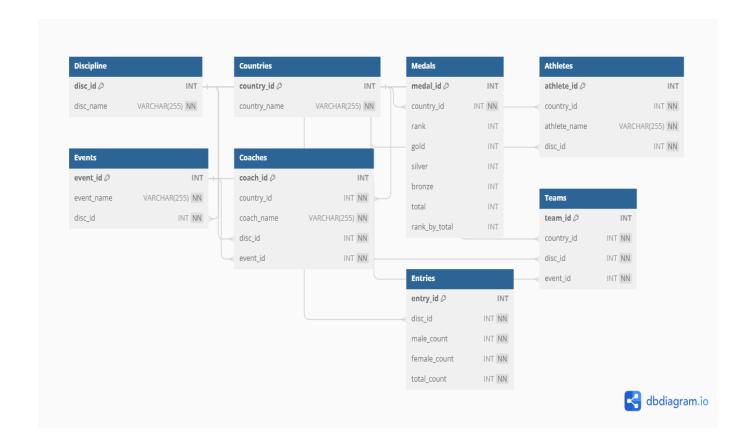
Deliverable 2

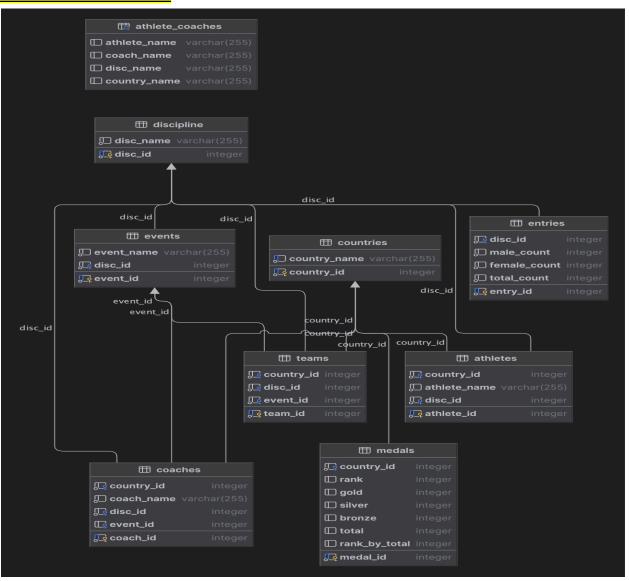
Team: Chethana Muppalam and Orobosa Ekhator

Topic: Tokyo Olympics Database

ER Diagram:



Relational Schema:



DDL Commands:

The attached consists of the schema and table creation queries for the 2021 tokyo olympics database.

```
DROP SCHEMA IF EXISTS tokyo_olympics CASCADE;

CREATE SCHEMA tokyo_olympics;

SET search_path TO tokyo_olympics;

CREATE TABLE Discipline (
    disc_id INT generated by default as identity primary key,
    disc_name VARCHAR(255) NOT NULL
);

CREATE TABLE Countries (
    country_id INT generated by default as identity primary key,
    country_name VARCHAR(255) NOT NULL ADD CONSTRAINT unique_country_name UNIQUE (country_name);
};

CREATE TABLE Medals (
    medal_id INT generated by default as identity primary key,
    country_id INT NOT NULL,
    rank INT,
    gold INT,
    silver INT,
    boroze INT,
    total INT,
    rank_by_total INT
```

```
CREATE TABLE Athletes (
athlete_id INT generated by default as identity primary key,
country_id INT NOT NULL,
athlete_name VARCHAR(255) NOT NULL,
disc_id INT NOT NULL,
FOREIGN KEY (country_id) REFERENCES Countries(country_id),
FOREIGN KEY (disc_id) REFERENCES Discipline(disc_id)

);

CREATE TABLE Events (
event_id INT generated by default as identity primary key,
event_name VARCHAR(255) NOT NULL,
disc_id INT NOT NULL,
FOREIGN KEY (disc_id) REFERENCES Discipline(disc_id)

);

CREATE TABLE Coaches (
coach_id INT generated by default as identity primary key,
country_id INT NOT NULL,
coach_name VARCHAR(255) NOT NULL,
disc_id INT NOT NULL,
event_id INT,
FOREIGN KEY (country_id) REFERENCES Countries(country_id),
FOREIGN KEY (country_id) REFERENCES Discipline(disc_id),
FOREIGN KEY (country_id) REFERENCES Events(event_id)

);
```

```
CREATE TABLE Entries (
entry_id INT generated by default as identity primary key,
FOREIGN KEY (disc_id) REFERENCES Discipline(disc_id)
CREATE TABLE Teams (
 team_id INT generated by default as identity primary key,
 FOREIGN KEY (disc_id) REFERENCES Discipline(disc_id),
FOREIGN KEY (event_id) REFERENCES Events(event_id)
CREATE OR REPLACE VIEW Athlete_Coaches AS
   COALESCE(c.coach_name, 'No Coach Assigned')::VARCHAR(255) AS coach_name,
   d.disc_name,
CREATE OR REPLACE VIEW Athlete_Coaches AS
   COALESCE(c.coach_name, 'No Coach Assigned')::VARCHAR(255) AS coach_name,
   d.disc_name,
   cn.country_name
   Athletes a
INNER JOIN
  Discipline d ON a.disc_id = d.disc_id
```

DML Commands:

The attached document consists of the insert and select queries for the 2021 tokyo olympics database. The data is cleaned and loaded from csv files into the tables using copy command.

Coaches c ON a.country_id = c.country_id AND a.disc_id = c.disc_id;

Countries cn ON a.country_id = cn.country_id

ADD CONSTRAINT unique_country_name UNIQUE (country_name);

Select * from Athlete_Coaches LIMIT 5;

ALTER TABLE Countries

```
DROP TABLE TempMedals;

select * from tokyo_olympics.Medals LIMIT 5;

create tempOrary table TempAthletes (
    athlete_name VARCHAR(255) NOT NULL,
    country_name VARCHAR(255) NOT NULL,
    discipline_name VARCHAR(255) NOT NULL

country_name varchar(255) NOT NULL

country_name varchar(255) NOT NULL

logy tempAthletes (athlete_name, country_name, discipline_name)

FROM '/u/chetha/dbms_olympics_project/athlets.csv'

DELIMITER ',' CSV HEADER;

INSERT INTO tokyo_olympics.Athletes (athlete_name, country_id, disc_id)

SELECT t.athlete_name, c.country_id, d.disc_id

FROM TempAthletes t

INNER JOIN tokyo_olympics.Countries c ON t.country_name = c.country_name

INNER JOIN tokyo_olympics.Discipline d ON t.discipline_name = d.disc_name;

DROP TABLE TempAthletes;

select * from tokyo_olympics.Athletes LIMIT 5;
```

```
CREATE TEMPORARY TABLE TempEvents (
event_name VARCHAR(255) NOT NULL,
discipline_name VARCHAR(255) NOT NULL

COPY TempEvents (event_name, discipline_name)
FROM '/U/chetha/dbms_olympics.project/event.csv'

FROM '/U/chetha/dbms_olympics.Events (event_name, disc_id)

SELECT te.event_name, d.disc_id
FROM TempEvents te

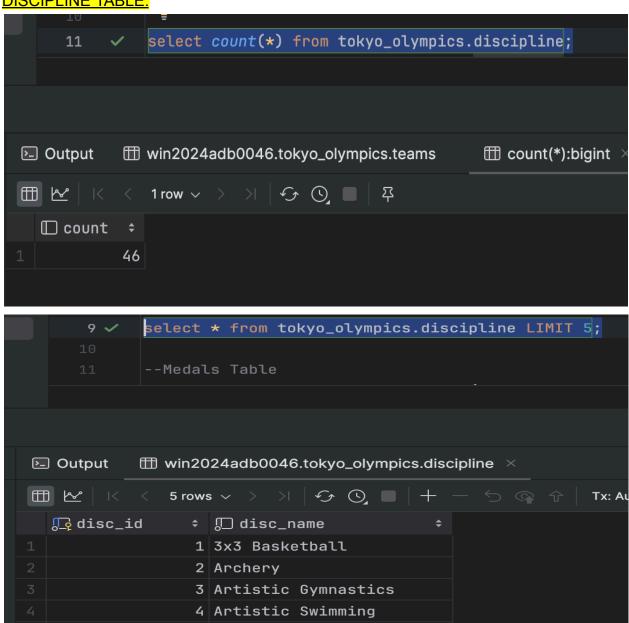
INNER JOIN tokyo_olympics.Discipline d ON te.discipline_name = d.disc_name;

-- Optional: Drop temporary table after use
DROP TABLE TempEvents;

select * from tokyo_olympics.Events LIMIT 5;

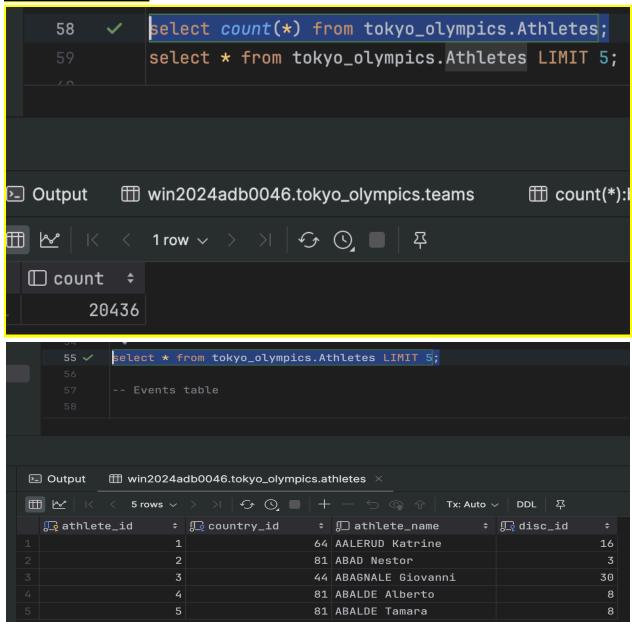
CREATE TEMPORARY TABLE TempCoaches (
coach_name VARCHAR(255) NOT NULL,
discipline_name VARCHAR(255),
event_name VARCHAR(255),
event_name VARCHAR(255),
event_name VARCHAR(255),
event_name VARCHAR(255),
event_name VARCHAR(255)
```

DISCIPLINE TABLE:

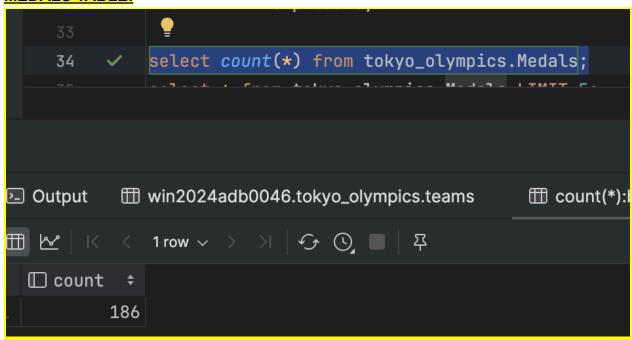


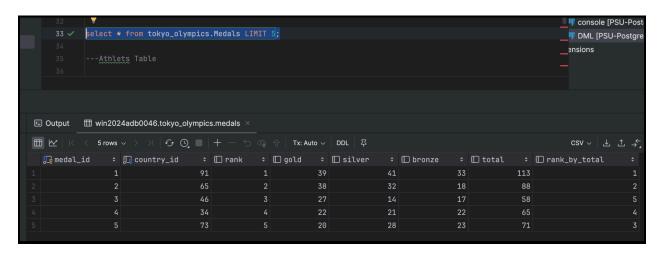
5 Athletics

ATHLETES TABLE:

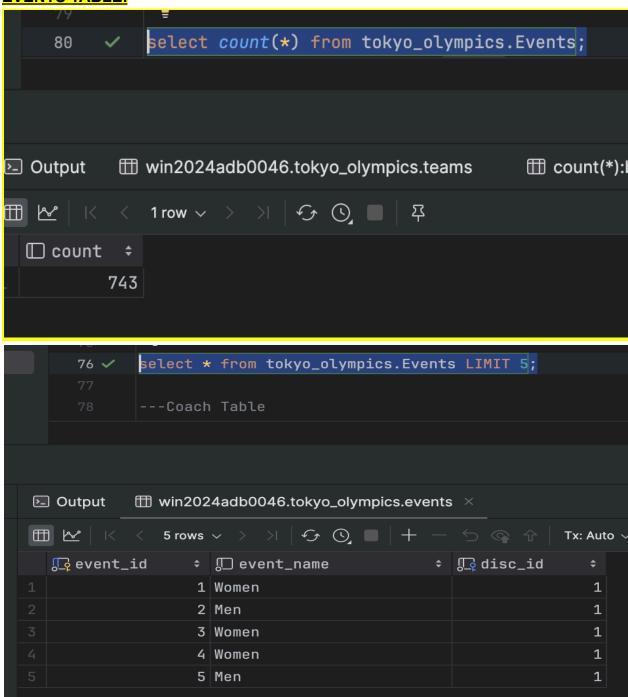


MEDALS TABLE:

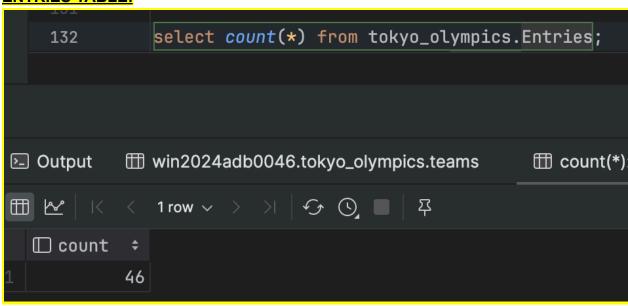


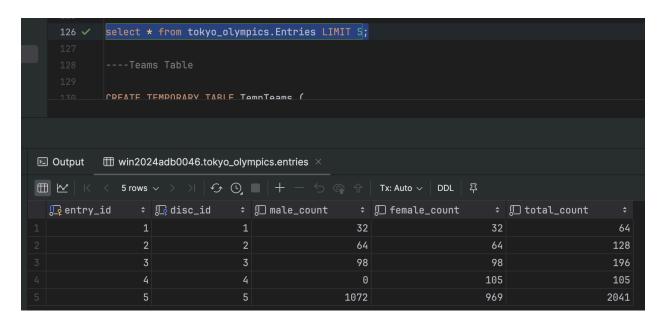


EVENTS TABLE:

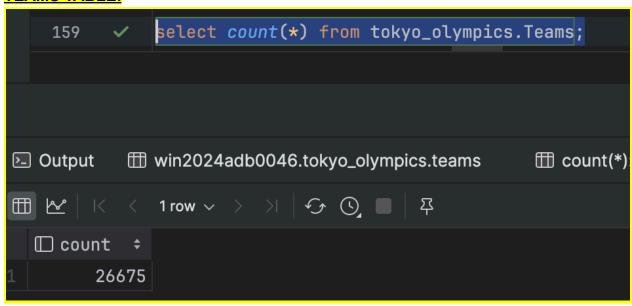


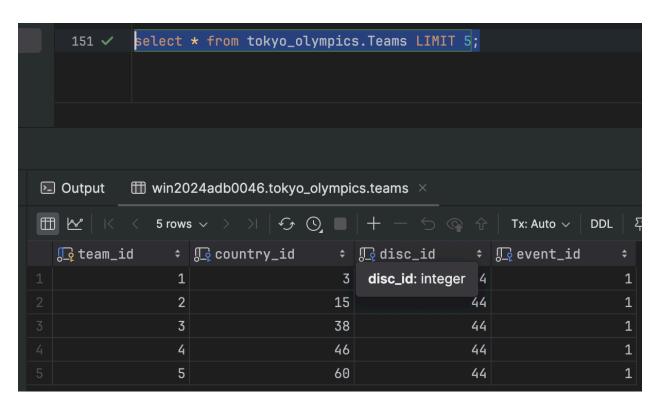
ENTRIES TABLE:



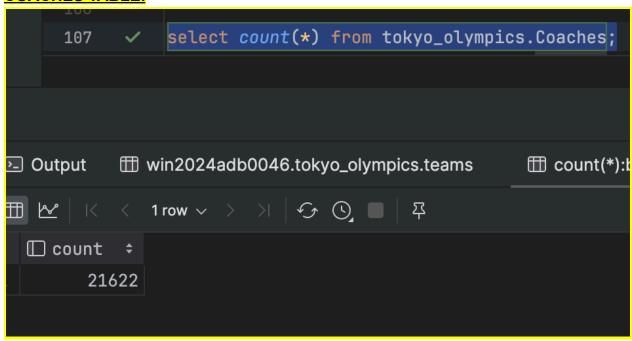


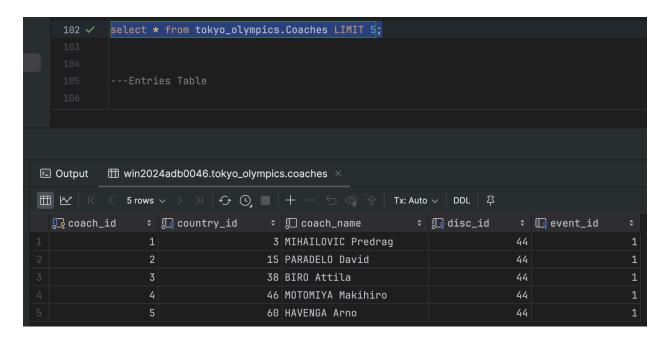
TEAMS TABLE:



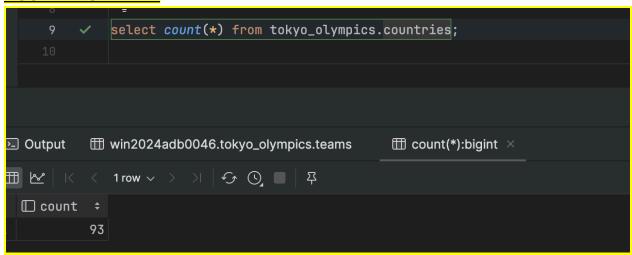


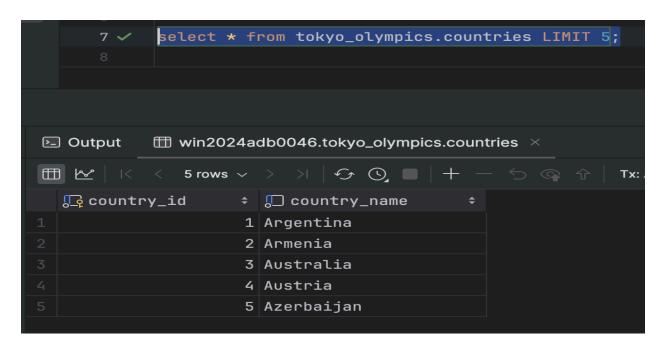
COACHES TABLE:





COUNTRIES TABLE:





Athlete Coach View:

