```
/* ===== BLOCK: Block 1 ===== */
-- creating a table of players
-- join with date of birth table
CREATE OR REPLACE TABLE PLAYER AS
SELECT
    P. "playerid"::int AS P PLAYER ID,
    "NameFirst" AS P NAME FIRST,
    "NameLast" AS P_NAME_LAST,
    "CurrentHandle" AS P NICK NAME,
    "DateOfBirth"::date AS P DATE OF BIRTH,
    "Year"::int AS P BIRTH YEAR,
   UPPER("CountryCode") AS P COUNTRY2CODE,
    "WorldRanking"::int AS P_WORLD_RANK,
    "CountryRanking"::int AS P COUNTRY RANK,
   "TotalUSDPrize"::float AS P PRIZE USD,
    "TotalTournaments"::int AS P CNT TOURNAMENTS
FROM API01PLAYERBYID COMPLETE DATASET AS P
FULL JOIN PLAYERIDDOBLINKS AS D ON P. "playerid" = D. "playerid"
ORDER BY P_PLAYER_ID;
-- the code for kosovo 'xk' is replaced by 'ko' in the PLAYER table, so that it can be correctly linked to the COUNTRY table
UPDATE PLAYER
SET P_COUNTRY2CODE = 'KO'
WHERE P COUNTRY2CODE = 'XK';
/* ===== BLOCK: Block 2 ===== */
-- creating a table of games
CREATE OR REPLACE TABLE GAME AS
-- add RANK to the table according to three indicators - number of players, number of tournaments and total prize
WITH CTE GAME AS (
SELECT
    "gameid"::int AS G_GAME_ID,
    "GameName" AS G GAME NAME,
    "TotalUSDPrize"::float AS G PRIZE USD,
```

```
"TotalTournaments"::int AS G CNT TOURNAMENTS,
    "TotalPlayers"::int AS G CNT PLAYERS,
   RANK() OVER(ORDER BY G PRIZE USD DESC NULLS LAST) AS G RANK PRIZE USD,
   RANK() OVER(ORDER BY G_CNT_TOURNAMENTS DESC NULLS LAST) AS G_RANK_CNT_TOURNAMENTS,
    RANK() OVER(ORDER BY G_CNT_PLAYERS DESC NULLS LAST) AS G_RANK_CNT_PLAYERS
FROM API04GAMEBYID COMPLETE DATASET
ORDER BY G GAME ID)
-- add the total RANK for the game to the table (created by adding all three basic ranks and ordering them from the lowest one)
SELECT
   G GAME ID,
   G_GAME_NAME,
   G_PRIZE_USD,
   G_CNT_TOURNAMENTS,
   G CNT PLAYERS,
   G RANK PRIZE USD,
   G RANK CNT TOURNAMENTS,
   G RANK CNT PLAYERS,
   RANK() OVER(ORDER BY (G_RANK_PRIZE_USD + G_RANK_CNT_TOURNAMENTS + G_RANK_CNT_PLAYERS) ASC NULLS LAST) AS G_RANK_ALL
FROM CTE GAME
ORDER BY G GAME ID ASC NULLS LAST;
/* ===== BLOCK: Block 3 ===== */
-- creation of a country codebook
CREATE OR REPLACE TABLE COUNTRY AS
SELECT
    "CountryLAT" AS C_COUNTRY,
    "English_short_name" AS C_COUNTRY_UTF8,
    "Alpha2code" AS C COUNTRY2CODE,
    "Alpha3code" AS C COUNTRY3CODE,
    "Continent" AS C CONTINENT
FROM COUNTRYCODES_IVETA
ORDER BY C COUNTRY;
```

```
/* ===== BLOCK: Block 4 ===== */
-- creation of the GDP PER CAPITA table
CREATE OR REPLACE TEMPORARY TABLE TEMP_GDP_PER_CAPITA AS
SELECT
    "Code" AS GDP COUNTRY3CODE,
    "Year"::int AS GDP YEAR,
    "GDP per capita PPP constant 2017 international"::float AS GDP GDP PER CAPITA USD
FROM "gdp-per-capita-worldbank"
ORDER BY GDP COUNTRY3CODE, GDP YEAR;
-- change the Kosovo code OWID KOS to KOS so that it can be paired with the COUNTRY table
UPDATE TEMP GDP PER CAPITA
SET GDP_COUNTRY3CODE = 'KOS'
WHERE GDP COUNTRY3CODE = 'OWID KOS';
CREATE OR REPLACE TABLE GDP PER CAPITA AS
SELECT
   C_COUNTRY2CODE AS GDP_COUNTRY2CODE,
   GDP YEAR,
   GDP GDP PER CAPITA USD
FROM TEMP_GDP_PER_CAPITA
LEFT JOIN COUNTRY ON GDP COUNTRY3CODE = C COUNTRY3CODE
WHERE GDP_COUNTRY3CODE is not null AND GDP_COUNTRY3CODE != 'OWID_WRL'
ORDER BY GDP COUNTRY2CODE, GDP YEAR;
/* ===== BLOCK: Block 5 ===== */
-- creation population table
CREATE OR REPLACE TEMPORARY TABLE TEMP_POPULATION AS
SELECT
    "Country name" AS POP COUNTRY,
    "Year"::int AS POP_YEAR,
    "Population"::int AS POP POPULATION,
    "Population aged 15 to 19 years"::int AS POP POPULATION AGED15 19,
```

```
"Population_aged_20_to_29_years"::int AS POP_POPULATION_AGED20_29
FROM "population-and-demography"
-- omitting rows containing summaries for certain areas (rows that are not for individual countries)
WHERE
    NOT POP_COUNTRY LIKE '%UN%'
   AND NOT POP COUNTRY ILIKE '%developed%'
   AND NOT POP COUNTRY ILIKE '%income%'
   AND NOT POP COUNTRY ILIKE '%countries%'
   AND NOT POP_COUNTRY ILIKE '%developing%'
   AND NOT POP COUNTRY = 'World'
ORDER BY POP_COUNTRY, POP_YEAR;
-- edit country names to be linked to the COUNTRY table
UPDATE TEMP_POPULATION
SET POP COUNTRY = 'Congo-Kinshasa'
WHERE POP_COUNTRY = 'Congo';
UPDATE TEMP POPULATION
SET POP_COUNTRY = 'Bonaire, Sint Eustatius and Saba'
WHERE POP_COUNTRY = 'Bonaire Sint Eustatius and Saba';
UPDATE TEMP_POPULATION
SET POP COUNTRY = 'Virgin Islands (British)'
WHERE POP_COUNTRY = 'British Virgin Islands';
UPDATE TEMP POPULATION
SET POP COUNTRY = 'Brunei Darussalam'
WHERE POP COUNTRY = 'Brunei';
UPDATE TEMP POPULATION
SET POP COUNTRY = 'Cabo Verde'
WHERE POP_COUNTRY = 'Cape Verde';
UPDATE TEMP_POPULATION
SET POP COUNTRY = 'Cote dIvoire'
```

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```
WHERE POP COUNTRY = $$Cote d'Ivoire$$;
UPDATE TEMP_POPULATION
SET POP_COUNTRY = 'Congo-Kinshasa'
WHERE POP_COUNTRY = 'Democratic Republic of Congo';
UPDATE TEMP POPULATION
SET POP_COUNTRY = 'Timor-Leste'
WHERE POP_COUNTRY = 'East Timor';
UPDATE TEMP POPULATION
SET POP_COUNTRY = 'Lao Peoples Democratic Republic'
WHERE POP_COUNTRY = 'Laos';
UPDATE TEMP_POPULATION
SET POP COUNTRY = 'Micronesia'
WHERE POP COUNTRY = 'Micronesia (country)';
UPDATE TEMP_POPULATION
SET POP_COUNTRY = 'Russian Federation'
WHERE POP_COUNTRY = 'Russia';
UPDATE TEMP POPULATION
SET POP_COUNTRY = 'Saint Martin'
WHERE POP_COUNTRY = 'Saint Martin (French part)';
UPDATE TEMP_POPULATION
SET POP COUNTRY = 'Sint Maarten'
WHERE POP_COUNTRY = 'Sint Maarten (Dutch part)';
UPDATE TEMP_POPULATION
SET POP_COUNTRY = 'Syrian Arab Republic'
WHERE POP_COUNTRY = 'Syria';
UPDATE TEMP_POPULATION
```

```
SET POP_COUNTRY = 'Turkiye'
WHERE POP COUNTRY = 'Turkey';
UPDATE TEMP_POPULATION
SET POP_COUNTRY = 'United Kingdom of Great Britain and Northern Ireland'
WHERE POP COUNTRY = 'United Kingdom';
UPDATE TEMP POPULATION
SET POP_COUNTRY = 'United States of America'
WHERE POP COUNTRY = 'United States';
UPDATE TEMP_POPULATION
SET POP COUNTRY = 'United States Minor Outlying Islands'
WHERE POP_COUNTRY = 'United States Virgin Islands';
CREATE OR REPLACE TABLE POPULATION AS
SELECT
   C_COUNTRY2CODE AS POP_COUNTRY2CODE,
   POP_YEAR,
   POP_POPULATION,
   POP POPULATION AGED15 19,
   POP_POPULATION_AGED20_29
FROM TEMP_POPULATION
LEFT JOIN COUNTRY ON POP_COUNTRY = C_COUNTRY
ORDER BY POP_COUNTRY, POP_YEAR;
/* ===== BLOCK: Block 6 ===== */
-- creating an Internet table
CREATE OR REPLACE TEMPORARY TABLE TEPM_INTERNET AS
SELECT
    "Entity" AS I COUNTRY,
    "Code" AS I_COUNTRY3CODE,
    "Year"::int AS I YEAR,
   "Individuals_using_the_Internet_of_population"::float AS I_SHARE_OF_INDIVID_USING_INTERNET
```

```
FROM "share-of-individuals-using-the-internet"
WHERE I COUNTRY3CODE is not null AND I COUNTRY3CODE != 'OWID WRL'
ORDER BY I_COUNTRY, I_YEAR;
-- change the Kosovo code OWID_KOS to KOS so that it can be paired with the COUNTRY table
UPDATE TEPM INTERNET
SET I COUNTRY3CODE = 'KOS'
WHERE I_COUNTRY3CODE = 'OWID_KOS';
-- edit country names if someone decides to pair them to the COUNTRY table
UPDATE TEPM_INTERNET
SET I_COUNTRY = 'Virgin Islands (British)'
WHERE I_COUNTRY = 'British Virgin Islands';
UPDATE TEPM INTERNET
SET I COUNTRY = 'Brunei Darussalam'
WHERE I_COUNTRY = 'Brunei';
UPDATE TEPM_INTERNET
SET I COUNTRY = 'Congo-Kinshasa'
WHERE I_COUNTRY = 'Congo';
UPDATE TEPM_INTERNET
SET I COUNTRY = 'Cabo Verde'
WHERE I_COUNTRY = 'Cape Verde';
UPDATE TEPM INTERNET
SET I_COUNTRY = 'Cote dIvoire'
WHERE I_COUNTRY = $$Cote d'Ivoire$$;
UPDATE TEPM_INTERNET
SET I_COUNTRY = 'Congo-Kinshasa'
WHERE I COUNTRY = 'Democratic Republic of Congo';
```

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```
UPDATE TEPM_INTERNET
SET I COUNTRY = 'Timor-Leste'
WHERE I_COUNTRY = 'East Timor';
UPDATE TEPM_INTERNET
SET I COUNTRY = 'Lao Peoples Democratic Republic'
WHERE I_COUNTRY = 'Laos';
UPDATE TEPM_INTERNET
SET I COUNTRY = 'Micronesia'
WHERE I COUNTRY = 'Micronesia (country)';
UPDATE TEPM_INTERNET
SET I_COUNTRY = 'Russian Federation'
WHERE I_COUNTRY = 'Russia';
UPDATE TEPM INTERNET
SET I_COUNTRY = 'Syrian Arab Republic'
WHERE I_COUNTRY = 'Syria';
UPDATE TEPM INTERNET
SET I_COUNTRY = 'Turkiye'
WHERE I_COUNTRY = 'Turkey';
UPDATE TEPM INTERNET
SET I_COUNTRY = 'United Kingdom of Great Britain and Northern Ireland'
WHERE I_COUNTRY = 'United Kingdom';
UPDATE TEPM_INTERNET
SET I_COUNTRY = 'United States of America'
WHERE I_COUNTRY = 'United States';
UPDATE TEPM_INTERNET
SET I COUNTRY = 'United States Minor Outlying Islands'
WHERE I_COUNTRY = 'United States Virgin Islands';
```

```
CREATE OR REPLACE TABLE INTERNET AS
SELECT
   C_COUNTRY2CODE AS I_COUNTRY2CODE,
   I_YEAR,
   I_SHARE_OF_INDIVID_USING_INTERNET
FROM TEPM INTERNET
LEFT JOIN COUNTRY ON I COUNTRY3CODE=C COUNTRY3CODE
WHERE I_COUNTRY3CODE is not null AND I_COUNTRY3CODE != 'OWID_WRL'
ORDER BY I COUNTRY, I YEAR;
/* ===== BLOCK: Block 7 ===== */
-- create Tournament table
CREATE OR REPLACE TABLE TOURNAMENT AS
SELECT
    "tournamentid"::int AS T_TOURNAMENT_ID,
    "TournamentName" AS T TOURNAMENT NAME,
    "StartDate"::date AS T_START_DATE,
    "EndDate"::date AS T_END_DATE,
    "Location" AS T LOCATION,
   UPDATEDLOCATION AS T COUNTRY,
   C COUNTRY2CODE AS T_COUNTRY2CODE,
    "ONLINETOURNAMENTS" AS T_ONLINE,
    "GameId"::int AS T GAME ID,
    "TotalUSDPrize"::float AS T PRIZE USD,
   "Teamplay"::boolean AS T_WAS_IT_TEAM_PLAY
FROM API07TOURNAMENTBYID LOCATONS UPD
LEFT JOIN COUNTRY ON T_COUNTRY=C_COUNTRY
ORDER BY T_TOURNAMENT_ID, T_GAME_ID;
/* ===== BLOCK: Block 8 ===== */
-- creating results table for individual player tournaments
```

```
CREATE OR REPLACE TABLE TOURNAMENT RESULTS INDIVIDUAL AS
SELECT
    "TournamentId"::int AS TRI TOURNAMENT ID,
    "PlayerId"::int AS TRI_PLAYER_ID,
    "Ranking"::int AS TRI_RANKING,
    "RankText" AS TRI RANK TEXT,
    "PrizeUSD"::float AS TRI PRIZE USD
FROM API08 COMPLETEDATASET
ORDER BY TRI_TOURNAMENT_ID, TRI_PLAYER_ID;
/* ===== BLOCK: Block 10 ===== */
-- creating TOURNAMENT TEAM table
CREATE OR REPLACE TABLE TOURNAMENT_TEAM AS
SELECT
   DISTINCT "TournamentTeamId"::int AS TT TOURNAMENT TEAM ID,
    "TournamentTeamName" AS TT TOURNAMENT TEAM NAME
FROM API09TOURNAMENTTEAMRESULTBYTOURNAMENTID COMPLETE DATASET
ORDER BY TT_TOURNAMENT_TEAM_ID;
/* ===== BLOCK: Block 11 ===== */
-- creation of results table for team tournaments
CREATE OR REPLACE TABLE TOURNAMENT_RESULTS_TEAM AS
WITH CTE_CNTPLAYERS AS (
SELECT
    "TournamentId"::int AS TOURNAMENT ID,
    "TournamentTeamId"::int AS TOURNAMENT_TEAM_ID,
   IFNULL(COUNT(DISTINCT "PlayerId"),0)::int AS CNT PLAYER ID
FROM "API10TOURNAMENTTEAMPLAYERBYTOURNAMENTID COMPLETE DATASET"
GROUP BY TOURNAMENT ID, TOURNAMENT TEAM ID
ORDER BY TOURNAMENT_ID, TOURNAMENT_TEAM_ID, CNT_PLAYER_ID
```

```
SELECT
   dev."TournamentId"::int AS TRT TOURNAMENT ID,
   dev."TeamId"::int AS TRT TEAM ID,
   dev. "TeamName" AS TRT TEAM NAME,
   dev."TournamentTeamId"::int AS TRT_TOURNAMENT_TEAM_ID,
   dev."Ranking"::int AS TRT TEAM RANKING,
   dev. "RankText" AS TRT TEAM RANK TEXT,
   dev. "PrizeUSD"::float AS TRT TEAM PRIZE USD,
   dev."UnknownPlayerCount"::int AS TRT_CNT_UNKNOWN_PLAYERS,
   c.CNT PLAYER ID::int AS TRT CNT KNOWN PLAYERS
FROM API09TOURNAMENTTEAMRESULTBYTOURNAMENTID COMPLETE DATASET dev
LEFT JOIN CTE CNTPLAYERS c ON TRT TOURNAMENT TEAM ID=c.TOURNAMENT TEAM ID
ORDER BY TRT TOURNAMENT ID, TRT TEAM ID, TRT TOURNAMENT TEAM ID;
/* ===== BLOCK: Block 12 ===== */
-- creating a table of results of individual players in teams
CREATE OR REPLACE TABLE TOURNAMENT RESULTS PLAYER IN TEAM AS
WITH CTE_CNTPLAYERS AS (
      SELECT
           "TournamentId"::int AS TOURNAMENT ID,
          "TournamentTeamId"::int AS TOURNAMENT TEAM ID,
          IFNULL(COUNT(DISTINCT "PlayerId"),0)::int AS CNT PLAYER ID
      FROM "API10TOURNAMENTTEAMPLAYERBYTOURNAMENTID_COMPLETE_DATASET"
      GROUP BY TOURNAMENT ID, TOURNAMENT TEAM ID
      ORDER BY TOURNAMENT ID, TOURNAMENT TEAM ID, CNT PLAYER ID
SELECT
   des."TournamentId"::int AS TRP TOURNAMENT ID,
   des."TournamentTeamId"::int AS TRP TOURNAMENT TEAM ID,
   des. "PlayerId"::int AS TRP PLAYER ID,
   (dev."PrizeUSD"::float / (dev."UnknownPlayerCount"::int + c.CNT_PLAYER_ID)) AS TRP_PRIZE_USD_FOR_PLAYER
FROM "API10TOURNAMENTTEAMPLAYERBYTOURNAMENTID COMPLETE DATASET" des
LEFT JOIN "API09TOURNAMENTTEAMRESULTBYTOURNAMENTID COMPLETE DATASET" dev ON dev. "TournamentTeamId" = des. "TournamentTeamId"
```

```
JOIN CTE CNTPLAYERS c ON c.TOURNAMENT TEAM ID=des."TournamentTeamId"
ORDER BY TRP TOURNAMENT ID, TRP TOURNAMENT TEAM ID, TRP PLAYER ID;
/* ===== BLOCK: Block 13 ===== */
-- adding records about players who are in API08 COMPLETEDATASET (from 08 table is created TOURNAMENT RESULTS INDIVIDUAL, but without
player details)
-- and API10TOURNAMENTTEAMPLAYERBYTOURNAMENTID COMPLETE DATASET (from 10 table is created TOURNAMENT RESULTS PLAYER IN TEAM, but
without player details)
-- tables but not in PLAYER table
INSERT INTO PLAYER
    (P PLAYER ID,
   P_NAME_FIRST,
   P_NAME_LAST,
   P NICK NAME,
   P COUNTRY2CODE,
   P PRIZE USD)
-- select player detail data from table API08 COMPLETEDATASET
SELECT
    DISTINCT "PlayerId"::int AS PLAYER ID,
    "NameFirst" AS NAME FIRST,
    "NameLast" AS NAME LAST,
    "CurrentHandle" AS NICK NAME,
    "CountryCode" AS COUNTRY2CODE,
   SUM("PrizeUSD")::float AS PRIZE USD
   FROM API08 COMPLETEDATASET
    -- select id of players who are in TOURNAMENT RESULTS INDIVIDUAL table but not in PLAYERS table
        WHERE PLAYER ID IN
        (SELECT * FROM
            (SELECT DISTINCT TRI PLAYER ID AS PLAYERID
            FROM TOURNAMENT RESULTS INDIVIDUAL
            EXCEPT
            (SELECT DISTINCT P_PLAYER_ID AS PLAYERID
            FROM PLAYER)
```

```
-- PLAYER_IDs greater than 900,000 are not real IDs,
        -- they only serve as a placeholder to keep track of the number of players and their winnings when the player is unknown.
       AND PLAYER ID < 900000
   GROUP BY PLAYER ID, NAME FIRST, NAME LAST, NICK NAME, COUNTRY2CODE
UNION
    -- select player detail data from table API10TOURNAMENTTEAMPLAYERBYTOURNAMENTID COMPLETE DATASET
   SELECT
        DISTINCT "PlayerId"::int AS PLAYER_ID,
        "NameFirst" AS NAME FIRST,
        "NameLast" AS NAME LAST,
        "CurrentHandle" AS NICK_NAME,
        "CountryCode" AS COUNTRY2CODE,
        SUM(TRP_PRIZE_USD_FOR_PLAYER)::float AS PRIZE_USD
   FROM "API10TOURNAMENTTEAMPLAYERBYTOURNAMENTID COMPLETE DATASET"
   LEFT JOIN TOURNAMENT RESULTS PLAYER IN TEAM ON PLAYER ID=TRP PLAYER ID
    -- select id of players who are in TOURNAMENT RESULTS PLAYER IN TEAM table but not in PLAYERS table
        WHERE PLAYER ID IN (
        SELECT * FROM
        (SELECT DISTINCT TRP PLAYER ID AS PLAYERID
        FROM TOURNAMENT RESULTS PLAYER IN TEAM)
        EXCEPT
        (SELECT DISTINCT P PLAYER ID AS PLAYERID
        FROM PLAYER)
   GROUP BY PLAYER_ID, NAME_FIRST, NAME_LAST, NICK_NAME, COUNTRY2CODE
ORDER BY PLAYER ID, NAME FIRST, NAME LAST, NICK NAME, COUNTRY2CODE;
/* ===== BLOCK: Block 16 ===== */
-- UPDATE TOURNAMENT: add the tournaments that are in the TOURNAMENT RESULTS INDIVIDUAL and TOURNAMENT RESULTS TEAM tables,
-- BUT THEY'RE NOT IN THE TOURNAMENT TABLE
-- to the TOURNAMENTS table
INSERT INTO TOURNAMENT
      (T_TOURNAMENT_ID,
```

```
T_PRIZE_USD)
-- select available data from TOURNAMENT RESULTS
SELECT * FROM
   (
   SELECT TRI_TOURNAMENT_ID::int AS T_TOURNAMENT_ID, SUM(TRI_PRIZE_USD)::float AS T_PRIZE_USD
   FROM TOURNAMENT RESULTS INDIVIDUAL
   GROUP BY T TOURNAMENT ID
   UNION ALL
   SELECT TRT_TOURNAMENT_ID::int AS T_TOURNAMENT_ID, SUM(TRT_TEAM_PRIZE_USD)::float AS T_PRIZE_USD
   FROM TOURNAMENT_RESULTS_TEAM
   GROUP BY T TOURNAMENT ID
WHERE T TOURNAMENT ID IN
   SELECT DISTINCT T_TOURNAMENT_ID FROM
       SELECT TRI_TOURNAMENT_ID::int AS T_TOURNAMENT_ID
       FROM TOURNAMENT_RESULTS_INDIVIDUAL
       GROUP BY T_TOURNAMENT_ID
       UNION ALL
       SELECT TRT_TOURNAMENT_ID::int AS T_TOURNAMENT_ID
       FROM TOURNAMENT_RESULTS_TEAM
       GROUP BY T_TOURNAMENT_ID
        EXCEPT
        SELECT T_TOURNAMENT_ID
       FROM TOURNAMENT
   );
/* ===== BLOCK: Block 14 ===== */
```

```
-- AGGREGATED DENORMALIZED TABLE FOR THE STATISTICS OF PLAYER CORRELATIONS IN PYTHON AND TABLEAU
CREATE OR REPLACE TABLE PLAYER GDP POP INT AS
SELECT
   C_COUNTRY AS GPI_COUNTRY,
   C CONTINENT AS GPI CONTINENT,
   COUNT(DISTINCT P PLAYER ID)::int as GPI CNT PLAYER ID,
   AVG(GDP GDP PER CAPITA USD)::float as GPI AVG GDP PER CAPITA,
   AVG(POP POPULATION)::float as GPI AVG POPULATION,
   AVG(POP_POPULATION_AGED15_19+POP_POPULATION_AGED20_29)::float as GPI_AVG_POPULATION_AGED_15TO29,
   ((COUNT(DISTINCT P PLAYER ID)*1000000)/AVG(POP POPULATION))::float as GPI CNT PLAYERS ON 1MIL POP,
   AVG(I SHARE OF INDIVID USING INTERNET)::float as GPI AVG SHARE OF INDIVIDUALS USING INTERNET
FROM PLAYER a
LEFT JOIN COUNTRY c ON upper(P COUNTRY2CODE)=C COUNTRY2CODE
LEFT JOIN GDP_PER_CAPITA g ON C_COUNTRY2CODE=GDP_COUNTRY2CODE
LEFT JOIN POPULATION p ON POP COUNTRY2CODE=C COUNTRY2CODE
LEFT JOIN INTERNET s ON I COUNTRY2CODE=C COUNTRY2CODE
WHERE
   GDP GDP PER CAPITA USD is not null
   -- ALL TABLES NEED TO BE UNIFIED FOR THE SAME PERIOD 1997-2021 (TABLES GDP, POP, INT ARE UP TO 2021)
   AND GDP YEAR >= 1997
   AND POP YEAR >= 1997
   AND I YEAR >= 1997
   AND P_PLAYER_ID IN
        -- SELECT A PLAYER ID OF EACH TOURNAMENT TO BE HELD BETWEEN 1997 and 2021
        (SELECT DISTINCT TRI PLAYER ID AS PLAYERID
       FROM TOURNAMENT RESULTS INDIVIDUAL
       WHERE TRI TOURNAMENT ID IN
              (SELECT DISTINCT T TOURNAMENT ID FROM TOURNAMENT WHERE YEAR(T END DATE) BETWEEN 1997 AND 2021)
              AND TRI PLAYER ID < 900000
              UNION
              SELECT DISTINCT TRP PLAYER ID AS PLAYERID
              FROM TOURNAMENT RESULTS PLAYER IN TEAM
              WHERE TRP_TOURNAMENT_ID IN
                    (SELECT DISTINCT T TOURNAMENT ID FROM TOURNAMENT WHERE YEAR(T END DATE) BETWEEN 1997 AND 2021))
GROUP BY C COUNTRY, C CONTINENT;
```

```
/* ===== BLOCK: Block 15 ===== */
-- AGGREGATED DENORMALIZED TABLES FOR PLAYERS RETIREMENT STATISTICS IN TABLEAU
CREATE OR REPLACE TEMPORARY TABLE TEMP_PLA_GAME_YEAR AS
-- join of the select below with the TOURNAMENT table
SELECT
      TOURNAMENT ID::int AS TOURNAMENT ID,
      PLAYER ID::int AS PLAYER ID,
      SUM(SUM_PRIZE::float) AS SUM_PRIZE,
      YEAR(T END DATE)::int as YEAR OF TOURNAMENT,
      T GAME ID::int AS GAME ID
FROM
    -- union of TOURNAMENT_RESULTS_INDIVIDUAL and TOURNAMENT_RESULTS_PLAYER_IN_TEAM tables
   SELECT
        TRI PLAYER ID::int AS PLAYER ID,
        SUM(TRI PRIZE USD)::float AS SUM PRIZE,
        TRI_TOURNAMENT_ID::int AS TOURNAMENT_ID,
        NULL AS TOURNAMENT_TEAM_ID
   FROM TOURNAMENT RESULTS INDIVIDUAL
   WHERE TRI PLAYER ID < 900000
   GROUP BY TRI_PLAYER_ID, TRI_TOURNAMENT_ID, TOURNAMENT_TEAM_ID
   UNION ALL
   SELECT
       TRP PLAYER ID::int AS PLAYER ID,
        SUM(TRP PRIZE USD FOR PLAYER)::float AS SUM PRIZE,
       TRP TOURNAMENT ID::int AS TOURNAMENT ID,
       TRP TOURNAMENT TEAM ID AS TOURNAMENT TEAM ID
   FROM TOURNAMENT_RESULTS_PLAYER_IN_TEAM
   GROUP BY PLAYER ID, TOURNAMENT ID, TOURNAMENT TEAM ID
   ) AS AAA
JOIN TOURNAMENT ON AAA.TOURNAMENT ID=T TOURNAMENT ID
GROUP BY TOURNAMENT_ID, PLAYER_ID, YEAR_OF_TOURNAMENT, GAME_ID;
```

```
-- WHAT IS THE AVERAGE, MEDIAN AND QUANTILE VALUE FOR A GAME?
CREATE OR REPLACE TEMPORARY TABLE TEMP AVG MED KVA PERGAME AS
WITH cte AS (
      SELECT PLAYER_ID, GAME_ID, SUM(SUM_PRIZE) as SUM2_PRIZE
      FROM TEMP_PLA_GAME_YEAR
      GROUP BY PLAYER ID, GAME ID)
SELECT
      GAME_ID,
      AVG(SUM2 PRIZE) as AVG PRIZE FOR GAME,
      MEDIAN(SUM2 PRIZE) as MED PRIZE FOR GAME,
      PERCENTILE_CONT( 0.9 ) WITHIN GROUP (ORDER BY SUM2_PRIZE) as KVA09_PRIZE_FOR_GAME
FROM cte
GROUP BY GAME_ID
ORDER BY GAME_ID;
-- Merge TABLE with TEMP PLA GAME YEAR and TEMP AVG MED KVA PERGAME
-- add columns if PRIZE >= AVG, MED, KVA PER GAME
CREATE OR REPLACE TEMPORARY TABLE TEMP PLAYER GAME AVG MED KVA AS
WITH CTE_UNIK AS (
      SELECT pp.GAME_ID, pp.PLAYER_ID, SUM(pp.SUM_PRIZE) AS SUM2_PRIZE
      FROM TEMP PLA GAME YEAR pp
      GROUP BY pp.GAME ID, pp.PLAYER ID)
SELECT c.GAME ID, PLAYER ID, SUM2 PRIZE,
    CASE WHEN SUM2_PRIZE >= KVA09_PRIZE_FOR_GAME THEN 1
        ELSE 0
        END as ISMORETHAN_KVA,
   CASE WHEN SUM2 PRIZE >= AVG PRIZE FOR GAME THEN 1
        ELSE 0
        END as ISMORETHAN_AVG,
   CASE WHEN SUM2 PRIZE >= MED PRIZE FOR GAME THEN 1
        ELSE 0
```

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```
END as ISMORETHAN MED
FROM CTE UNIK c
JOIN TEMP AVG MED KVA PERGAME a ON a.GAME ID = c.GAME ID
WHERE SUM2 PRIZE is not null
ORDER BY PLAYER_ID, c.GAME_ID, SUM2_PRIZE DESC;
-- the TEMP PLAYER GAME AVG MED KVA table shows that MEDIAN is not suitable for our purposes because it divides the players ca into
two halves (48.6% and 51.4%).
-- The mean and quantile are relatively similar, the quantile is more in line with our idea, so we only work with the quantile below
-- The average divides the players into 83.6% and 16.7%
-- The quantile divides the players into 89.6% and 10.4%
-- Percentages should be viewed with the understanding that this is a rough preview that does not take into account fact,
-- that the players are always in the source table broken down by a game.
-- QUANTILE
-- SELECT COUNT(DISTINCT PLAYER ID)
-- FROM TEMP PLAYER GAME AVG MED KVA
-- WHERE ISMORETHAN KVA = 1; -- 7 149 = 10,4 %
-- SELECT COUNT(DISTINCT PLAYER ID)
-- FROM TEMP PLAYER GAME AVG MED KVA
-- WHERE ISMORETHAN KVA = 0; -- 61 849 = 89,6 %
-- AVERAGE
-- SELECT COUNT(DISTINCT PLAYER ID)
-- FROM TEMP PLAYER GAME AVG MED KVA
-- WHERE ISMORETHAN AVG = 1; -- 11 396 = 16,7 %
-- SELECT COUNT(DISTINCT PLAYER ID)
-- FROM TEMP PLAYER GAME AVG MED KVA
-- WHERE ISMORETHAN AVG = 0; -- 58 220 = 83,6 %
-- MEDIAN
-- SELECT COUNT(DISTINCT PLAYER_ID)
-- FROM TEMP_PLAYER_GAME_AVG_MED_KVA
-- WHERE ISMORETHAN MED = 1; -- 34 057 = 48,6 %
-- SELECT COUNT(DISTINCT PLAYER ID)
```

```
-- FROM TEMP_PLAYER_GAME_AVG_MED_KVA
-- WHERE ISMORETHAN MED = 0; -- 36 029 = 51,4 %
-- creating final tables
CREATE OR REPLACE TEMPORARY TABLE TEMP_WHOSEARLYERRETIRED_KVA AS
-- counting Players and Average count of years they played and summing Prizes for each game, adding Game names
SELECT
      x.GAME ID::int AS W GAME ID,
      G_GAME_NAME AS W_GAME_NAME,
      x.ISMORETHAN_KVA::int AS W_ISMORETHAN_KVA,
      COUNT(DISTINCT x.PLAYER_ID)::int as W_CTN_PLAYERS,
      AVG(x.CNT_YEARS)::float as W_AVG_CNT_YEARS,
      SUM(x.SUM3_PRIZE)::float as W_SUM_PRIZE_USD
FROM
    -- adding Prize and Quantile by joining table TEMP PLAYER GAME AVG MED KVA
   SELECT
         tityp.GAME ID,
         tityp.PLAYER_ID,
         tityp.CNT_YEARS,
         SUM(tg.SUM2_PRIZE) AS SUM3_PRIZE,
         ISMORETHAN KVA
   FROM
        -- counting years of tournaments and grouping other collums
        SELECT
            GAME_ID,
            PLAYER ID,
            COUNT(DISTINCT YEAR OF TOURNAMENT) AS CNT YEARS
        FROM
            -- adding year of tournament from Tournament table
```

```
SELECT GAME ID, PLAYER ID, YEAR(T END DATE) AS YEAR OF TOURNAMENT
            FROM
                -- core data: game, player, tournament ID is obtained by merging two tables
                SELECT
                    GAME ID,
                    PLAYER ID,
                    TRI TOURNAMENT ID AS TOURNAMENT ID
                FROM TEMP_PLAYER_GAME_AVG_MED_KVA
                LEFT JOIN TOURNAMENT RESULTS INDIVIDUAL ti ON PLAYER ID=TRI PLAYER ID
                GROUP BY GAME ID, PLAYER ID, TRI TOURNAMENT ID
               UNION ALL
                SELECT
                    GAME_ID,
                    PLAYER ID,
                    TRP TOURNAMENT_ID AS TOURNAMENT_ID
                FROM TEMP PLAYER GAME AVG MED KVA
                LEFT JOIN TOURNAMENT RESULTS PLAYER IN TEAM tt ON PLAYER ID=TRP PLAYER ID
                GROUP BY GAME_ID, PLAYER_ID, TRP_TOURNAMENT_ID
               ORDER BY GAME ID, PLAYER ID
               ) tit
            LEFT JOIN TOURNAMENT t ON TOURNAMENT ID=T TOURNAMENT ID
            ) tity
        GROUP BY GAME ID, PLAYER ID
         ) titvp
    JOIN TEMP PLAYER GAME AVG MED KVA tg ON tg.GAME ID=tityp.GAME ID AND tg.PLAYER ID=tityp.PLAYER ID
    GROUP BY tityp.GAME ID, tityp.PLAYER ID, tityp.CNT YEARS, ISMORETHAN KVA
     -- ORDER BY tityp.PLAYER ID, tityp.GAME ID
  ) x
JOIN GAME g ON G GAME ID=x.GAME ID
GROUP BY x.GAME ID, G GAME NAME, x.ISMORETHAN KVA
ORDER BY x.GAME ID, G GAME NAME, x.ISMORETHAN KVA DESC;
-- creating final table, where sample of players for a game is more than 100 players (Because smaller sample is not statisticaly
representative for us)
```

```
CREATE OR REPLACE TABLE WHOSEARLYERRETIRED KVA AS
SELECT
      W GAME ID,
      W_GAME_NAME,
      W_ISMORETHAN_KVA,
      W CTN PLAYERS,
      W AVG CNT YEARS,
      W SUM PRIZE USD
FROM TEMP_WHOSEARLYERRETIRED_KVA
WHERE W GAME ID IN
        (SELECT DISTINCT W GAME ID FROM
            SELECT W_GAME_ID, SUM(W_CTN_PLAYERS) AS SUM_PLAYERS
            FROM TEMP_WHOSEARLYERRETIRED_KVA
            GROUP BY W GAME ID
            HAVING SUM PLAYERS >=100
        );
-- it is necessary (for the desired visualizations in Tableau) to transform the table so that each column is split into two, depending
on whether W ISMORETHAN KVA = 1 or 0.
CREATE OR REPLACE TABLE WHOSEARLYERRETIRED KVA ROWS AS
SELECT
   W_GAME_ID,
   W_GAME_NAME,
   SUM(IFNULL(CTN_PLAYERS_0,0)) AS CTN_PLAYERS_0,
   SUM(IFNULL(CTN PLAYERS 1,0)) AS CTN PLAYERS 1,
   SUM(IFNULL(SUM_PRIZE_USD_1,0)) AS SUM_PRIZE_USD_1,
   SUM(IFNULL(W_AVG_CNT_YEARS_0,0)) AS W_AVG_CNT_YEARS_0,
   SUM(IFNULL(W_AVG_CNT_YEARS_1,0)) AS W_AVG_CNT_YEARS_1
FROM
    (SELECT
       W_GAME_ID,
       W GAME NAME,
       0 AS CTN_PLAYERS_0,
```

```
W_CTN_PLAYERS AS CTN_PLAYERS_1,
        0 AS SUM PRIZE USD 0,
       W_SUM_PRIZE_USD AS SUM_PRIZE_USD_1,
        0 AS W_AVG_CNT_YEARS_0,
        W_AVG_CNT_YEARS AS W_AVG_CNT_YEARS_1
    FROM TEMP WHOSEARLYERRETIRED KVA
    WHERE W ISMORETHAN KVA = 1
    UNION
    SELECT
        W GAME ID,
       W_GAME_NAME,
       W_CTN_PLAYERS AS CTN_PLAYERS_0,
        0 AS CTN_PLAYERS_1,
       W_SUM_PRIZE_USD AS SUM_PRIZE_USD_0,
        0 AS SUM_PRIZE_USD_1,
       W_AVG_CNT_YEARS AS W_AVG_CNT_YEARS_0,
        0 AS W AVG CNT YEARS 1
   FROM TEMP_WHOSEARLYERRETIRED KVA
    WHERE W_ISMORETHAN_KVA = 0)
GROUP BY W_GAME_ID, W_GAME_NAME
ORDER BY W_GAME_ID;
-- table for maximum age of players
CREATE OR REPLACE TABLE WHOSEARLYERRETIRED MAXAGE AS
WITH CTE_PDAK AS (
  SELECT
      pp.TOURNAMENT_ID,
      pp.YEAR_OF_TOURNAMENT,
      pp.GAME ID, pp.PLAYER ID,
      P_BIRTH_YEAR AS YEAR_OF_BIRTH,
      pp.YEAR_OF_TOURNAMENT - P_BIRTH_YEAR AS AGE_ON_TOURNAMENT_YEAR,
      pp.SUM_PRIZE,
      CASE WHEN pp.SUM PRIZE >= KVA09 PRIZE FOR GAME THEN 1
```

```
ELSE 0
      END as ISMORETHAN KVA
  FROM TEMP PLA GAME YEAR pp
  JOIN PLAYER ON pp.PLAYER_ID = P_PLAYER_ID
  JOIN TEMP_AVG_MED_KVA_PERGAME a ON a.GAME_ID = pp.GAME_ID
  WHERE P BIRTH YEAR is not null
SELECT
    x.GAME ID::int AS W GAME ID,
    G GAME NAME AS W GAME NAME,
   x.ISMORETHAN_KVA::int AS W_ISMORETHAN_KVA,
   COUNT(DISTINCT x.PLAYER_ID)::int as W_CTN_PLAYERS,
   AVG(CNT_AGE)::float as W_AVG_CNT_YEARS,
   MAX(MAX_AGE)::int as W_MAX_AGE
FROM
   SELECT
        GAME_ID,
        PLAYER ID,
        COUNT(DISTINCT AGE_ON_TOURNAMENT_YEAR) as CNT_AGE,
        MAX(AGE_ON_TOURNAMENT_YEAR) as MAX_AGE,
        SUM(SUM PRIZE) as SUM2 PRIZE,
        ISMORETHAN_KVA
   FROM CTE PDAK
   GROUP BY GAME ID, PLAYER ID, ISMORETHAN KVA
   ) x
JOIN GAME g ON G GAME ID=x.GAME ID
GROUP BY x.GAME_ID, G_GAME_NAME, x.ISMORETHAN_KVA
ORDER BY x.GAME_ID, G_GAME_NAME, x.ISMORETHAN_KVA DESC;
-- just a control table for a distribution of players in their years played
CREATE OR REPLACE TABLE WHOSEARLIERRETIRED_PLAYERSBYYERS AS
SELECT
   x.ISMORETHAN_KVA::int AS ISMORETHAN_KVA,
```

```
CNT_YEARS,
   COUNT(DISTINCT x.PLAYER_ID)::int as CTN_PLAYERS
FROM
   SELECT
        tityp.GAME_ID,
        tityp.PLAYER ID,
        tityp.CNT_YEARS,
        SUM(SUM2_PRIZE) AS SUM3_PRIZE,
        ISMORETHAN KVA,
        tityp.CNT_TOURNAMENTS
   FROM
        SELECT
            GAME_ID,
            PLAYER_ID,
            COUNT(DISTINCT YEAR_OF_TOURNAMENT) AS CNT_YEARS,
            COUNT(DISTINCT TOURNAMENT_ID) AS CNT_TOURNAMENTS
        FROM
            SELECT
                GAME_ID,
                PLAYER_ID,
                TOURNAMENT_ID,
                YEAR(T_END_DATE) AS YEAR_OF_TOURNAMENT
            FROM
                SELECT
                    GAME_ID, PLAYER_ID,
                    TRI_TOURNAMENT_ID AS TOURNAMENT_ID
                FROM TEMP_PLAYER_GAME_AVG_MED_KVA
                LEFT JOIN TOURNAMENT_RESULTS_INDIVIDUAL ti ON PLAYER_ID=TRI_PLAYER_ID
                GROUP BY GAME_ID, PLAYER_ID, TRI_TOURNAMENT_ID
                UNION ALL
                SELECT
```

```
GAME ID,
                    PLAYER ID,
                    TRP_TOURNAMENT_ID AS TOURNAMENT_ID
                FROM TEMP_PLAYER_GAME_AVG_MED_KVA
                LEFT JOIN TOURNAMENT_RESULTS_PLAYER_IN_TEAM tt ON PLAYER_ID=TRP_PLAYER_ID
                GROUP BY GAME_ID, PLAYER_ID, TRP_TOURNAMENT_ID
                ORDER BY GAME ID, PLAYER ID
               ) tit
            LEFT JOIN TOURNAMENT t ON TOURNAMENT_ID=T_TOURNAMENT_ID
             ) tity
        GROUP BY GAME ID, PLAYER ID
        ) tityp
     JOIN TEMP_PLAYER_GAME_AVG_MED_KVA tg ON tg.GAME_ID=tityp.GAME_ID AND tg.PLAYER_ID=tityp.PLAYER_ID
     GROUP BY tityp.GAME_ID, tityp.PLAYER_ID, tityp.CNT_YEARS, tityp.CNT_TOURNAMENTS, ISMORETHAN_KVA
  ) x
GROUP BY ISMORETHAN KVA, CNT YEARS
ORDER BY ISMORETHAN KVA, CNT YEARS DESC;
/* ===== BLOCK: Block 15 ===== */
-- drop redundant columns
ALTER TABLE COUNTRY
DROP COLUMN C_COUNTRY3CODE, C_COUNTRY_UTF8;
ALTER TABLE TOURNAMENT
DROP COLUMN T_COUNTRY;
```