ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΕΙΡΑΙΩΣ

Τμήμα Πληροφορικής

Εργασία Μαθήματος «Βάσεις Δεδομένων»

Εργασία	***DB-project-spring2023_v5.pdf***

-

```
-
--1.1
--

---- TABLE TEAM ----

CREATE TABLE IF NOT EXISTS public."team"
(
    "TEAM_ID" integer NOT NULL,
    "NAME" character varying COLLATE pg_catalog."default" NOT NULL,
    "STADIUM" character varying COLLATE pg_catalog."default",
    "DSCR" character varying COLLATE pg_catalog."default",
    "HOME_WINS" integer,
    "AWAY_WINS" integer,
    "HOME_LOSSES" integer,
    "AWAY_LOSSES" integer,
    "HOME_DRAWS" integer,
    "AWAY_DRAWS" integer,
    CONSTRAINT "TEAM_pkey" PRIMARY KEY ("TEAM_ID")
);

-- DATA FOR TEAM

INSERT INTO public."team"(
        "TEAM_ID", "NAME", "STADIUM", "DSCR", "HOME_WINS", "AWAY_WINS",
"HOME_LOSSES", "AWAY_LOSSES", "HOME_DRAWS", "AWAY_DRAWS")
        VALUES
        (6,'Aek','OPAP Arena','Descripsion Aek',2,2,1,1,1,1)
        (2,'Olympiacos','Georgios Karaiskaki','Descripsion Olympiacos',3,1,1,3,0,0)
        (3,'Panathinaikos','Leoforos','Descripsion Panathinaikos',4,4,0,0,0,0)
        (4,'Aris','Dikelidis','Descripsion Aris',3,3,0,0,1,1)
```

```
        (5,'Volos','Pannthesaliko','Descripsion Volos',2,2,2,2,0,0);


---- TABLE PLAYER ----


CREATE TABLE IF NOT EXISTS public."player"
(
    "PLAYER_ID" integer NOT NULL,
    "FIRST_NAME" character varying(10) COLLATE pg_catalog."default" NOT NULL,
    "LAST_NAME" character varying(10) COLLATE pg_catalog."default" NOT NULL,
    "TEAM_ID" integer,
    "POSITION" character varying COLLATE pg_catalog."default",
    "YELLOW_CARDS" integer,
    "RED_CARDS" integer,
    "GOALS" integer,
    "MINUTES" integer,
    "ACTIVE" boolean,
    CONSTRAINT "PLAYER_pkey" PRIMARY KEY ("PLAYER_ID"),
    CONSTRAINT "PLAYER_TEAM_ID_fkey" FOREIGN KEY ("TEAM_ID")
        REFERENCES public."team" ("TEAM_ID") MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT "PLAYER_FIRST_NAME_check" CHECK ("FIRST_NAME"::text ~
'^[[:alnum:][:punct:]]{1,10}$'::text),
    CONSTRAINT "PLAYER_LAST_NAME_check" CHECK ("LAST_NAME"::text ~
'^[[:alnum:][:punct:]]{1,10}$'::text)
);


-- TRIGGER FOR PLAYER


-- Create a trigger function to check the player count for a team (excluding inactive players)
CREATE OR REPLACE FUNCTION PLAYER_COUNT()
  RETURNS TRIGGER AS
```

```
$$
DECLARE
  TEAM_COUNT INTEGER;
BEGIN
  -- Get the count of active players for the current team (excluding the coach)
  SELECT COUNT(*) INTO TEAM_COUNT
  FROM public."player"
  WHERE "TEAM_ID" = NEW."TEAM_ID" AND "ACTIVE" = NEW."ACTIVE";

  -- Check if the team already has 11 active players (excluding the coach)
  IF TEAM_COUNT >= 11 THEN
    RAISE EXCEPTION 'Maximum player count reached for the team.';
  END IF;

  RETURN NEW;
END;
$$
LANGUAGE plpgsql;
-- Create a trigger on the PLAYER table to invoke the check_player_count function before insert
CREATE TRIGGER PLAYER_COUNT_TRIGGER
  BEFORE INSERT ON public."player"
  FOR EACH ROW
  EXECUTE FUNCTION PLAYER_COUNT();

-- DATA FOR PLAYER

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (1, 'Άγγελος', 'Κατσαρός', 1, 'Defensive lineman', 3, 1, 12, 146, 'FALSE');
insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (2, 'Ανδρέας', 'Τζώρτζης', 2, 'Cornerback', 5, 1, 4, 1134, 'FALSE');
```

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (3, 'Σταύρος', 'Αργυρός', 3, 'Linebacker', 4, 1, 9, 740, 'FALSE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (4, 'Ηλίας', 'Κατσαρός', 4, 'Safety', 3, 2, 15, 764, 'FALSE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (5, 'Δημήτριος', 'Καράς', 5, 'Linebacker', 1, 1, 8, 393, 'FALSE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (6, 'Μιχαήλ', 'Αργυρός', 1, 'Cornerback', 1, 3, 6, 641, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (7, 'Γεώργιος', 'Λάσκαρης', 2, 'Offensive lineman', 3, 2, 13, 962, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (8, 'Λεωνίδας', 'Ιωάννου', 3, 'Linebacker', 1, 3, 11, 1135, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (9, 'Αντώνιος', 'Σταύρος', 4, 'Offensive lineman', 1, 2, 5, 1545, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (10, 'Βασίλειος', 'Δημητρίου', 5, 'Kicker', 2, 3, 9, 1206, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (11, 'Μιχαήλ', 'Παππάς', 1, 'Kicker', 1, 1, 8, 1419, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (12, 'Μιχαήλ', 'Δημητρίου', 2, 'Defensive lineman', 4, 3, 1, 168, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (13, 'Μιχαήλ', 'Γεωργίου', 3, 'Cornerback', 4, 1, 12, 1644, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (14, 'Γρηγόριος', 'Αργυρός', 4, 'Wide receiver', 3, 1, 12, 843, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (15, 'Χρήστος', 'Παππάς', 5, 'Linebacker', 5, 1, 3, 366, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (16, 'Λεωνίδας', 'Τζώρτζης', 1, 'Tight end', 2, 3, 4, 1055, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (17, 'Βασίλειος', 'Παππάς', 2, 'Tight end', 4, 2, 12, 1615, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (18, 'Σταύρος', 'Δημητρίου', 3, 'Offensive lineman', 4, 2, 8, 1170, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (19, 'Ιωάννης', 'Σταύρος', 4, 'Kicker', 3, 1, 6, 513, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (20, 'Ιωάννης', 'Ανδρεάδης', 5, 'Offensive lineman', 4, 1, 2, 882, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (21, 'Νικόλαος', 'Ανδρεάδης', 1, 'Tight end', 1, 2, 12, 1007, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (22, 'Ιωάννης', 'Μανώλης', 2, 'Quarterback', 3, 2, 15, 44, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (23, 'Κυριάκος', 'Ιωάννου', 3, 'Defensive lineman', 4, 2, 2, 541, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (24, 'Κυριάκος', 'Μαυρίδης', 4, 'Quarterback', 5, 3, 15, 250, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (25, 'Γεώργιος', 'Κούρος', 5, 'Safety', 4, 1, 14, 577, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (26, 'Ηλίας', 'Σταύρος', 1, 'Safety', 5, 1, 7, 1287, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (27, 'Θεόδωρος', 'Λάσκαρης', 2, 'Tight end', 3, 3, 15, 283, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (28, 'Ιωάννης', 'Μανώλης', 3, 'Linebacker', 3, 3, 8, 1799, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (29, 'Βασίλειος', 'Ανδρεάδης', 4, 'Linebacker', 5, 3, 14, 261, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (30, 'Ανδρέας', 'Αργυρός', 5, 'Tight end', 2, 2, 13, 183, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (31, 'Γεώργιος', 'Ιωάννου', 1, 'Tight end', 2, 2, 14, 1800, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (32, 'Αντώνιος', 'Καράς', 2, 'Offensive lineman', 5, 2, 8, 1059, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (33, 'Γρηγόριος', 'Κατσαρός', 3, 'Wide receiver', 3, 1, 13, 615, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (34, 'Πέτρος', 'Κατσαρός', 4, 'Offensive lineman', 4, 3, 7, 1775, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (35, 'Λεωνίδας', 'Αργυρός', 5, 'Offensive lineman', 3, 1, 11, 753, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (36, 'Κώστας', 'Λάσκαρης', 1, 'Defensive lineman', 2, 1, 13, 1036, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (37, 'Στέφανος', 'Ανδρεάδης', 2, 'Tight end', 5, 2, 6, 1285, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (38, 'Αντώνιος', 'Κατσαρός', 3, 'Linebacker', 4, 3, 13, 172, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (39, 'Βασίλειος', 'Παππάς', 4, 'Wide receiver', 5, 1, 15, 392, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (40, 'Δημήτριος', 'Πετρίδης', 5, 'Linebacker', 2, 2, 5, 1408, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (41, 'Ιωάννης', 'Μανώλης', 1, 'Kicker', 3, 3, 1, 901, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (42, 'Πέτρος', 'Πετρίδης', 2, 'Safety', 5, 2, 12, 596, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (43, 'Γεώργιος', 'Καράς', 3, 'Offensive lineman', 3, 3, 14, 902, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (44, 'Αθανάσιος', 'Μαυρίδης', 4, 'Defensive lineman', 2, 3, 13, 1787, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (45, 'Κώστας', 'Δημητρίου', 5, 'Tight end', 5, 1, 1, 844, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (46, 'Κυριάκος', 'Λάσκαρης', 1, 'Running back', 4, 3, 13, 687, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (47, 'Ιωάννης', 'Αργυρός', 2, 'Offensive lineman', 5, 1, 10, 1024, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (48, 'Κώστας', 'Γεωργίου', 3, 'Quarterback', 3, 2, 15, 206, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (49, 'Βασίλειος', 'Μαυρίδης', 4, 'Kicker', 3, 3, 5, 938, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (50, 'Αντώνιος', 'Καράς', 5, 'Running back', 4, 1, 11, 1218, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (51, 'Κώστας', 'Λάσκαρης', 1, 'Offensive lineman', 2, 1, 3, 1632, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (52, 'Πέτρος', 'Παππάς', 2, 'Linebacker', 5, 2, 8, 1800, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (53, 'Νικόλαος', 'Αργυρός', 3, 'Cornerback', 4, 1, 12, 275, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (54, 'Δημήτριος', 'Κούρος', 4, 'Linebacker', 2, 1, 3, 1310, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (55, 'Σταύρος', 'Ανδρεάδης', 5, 'Wide receiver', 4, 3, 13, 1533, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (56, 'Άγγελος', 'Παππάς', 1, 'Quarterback', 2, 2, 6, 782, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (57, 'Γεώργιος', 'Κούρος', 2, 'Cornerback', 3, 3, 7, 633, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (58, 'Μάριος', 'Μανώλης', 3, 'Defensive lineman', 2, 1, 11, 1168, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (59, 'Θεόδωρος', 'Αργυρός', 4, 'Kicker', 4, 1, 9, 469, 'TRUE');

insert into public."player" ("PLAYER_ID", "FIRST_NAME", "LAST_NAME", "TEAM_ID", "POSITION", "YELLOW_CARDS", "RED_CARDS", "GOALS", "MINUTES", "ACTIVE") values (60, 'Γρηγόριος', 'Σταύρος', 5, 'Offensive lineman', 1, 2, 4, 6, 'TRUE');

---- TABLE COACH ----

CREATE TABLE IF NOT EXISTS public."coach"

(

"COACH_ID" integer NOT NULL,

"PLAYER_ID" integer NOT NULL,

"TEAM_ID" integer NOT NULL,

CONSTRAINT "COACH_pkey" PRIMARY KEY ("COACH_ID"),

CONSTRAINT "COACH_PLAYER_ID_fkey" FOREIGN KEY ("PLAYER_ID")

REFERENCES public."player" ("PLAYER_ID") MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION,

CONSTRAINT "COACH_TEAM_ID_fkey" FOREIGN KEY ("TEAM_ID")

REFERENCES public."team" ("TEAM_ID") MATCH SIMPLE

ON UPDATE NO ACTION

ON DELETE NO ACTION

```
);

-- DATA FOR COACH

insert into public."coach" ("COACH_ID", "PLAYER_ID", "TEAM_ID") values (1, 1, 1);
insert into public."coach" ("COACH_ID", "PLAYER_ID", "TEAM_ID") values (2, 2, 2);
insert into public."coach" ("COACH_ID", "PLAYER_ID", "TEAM_ID") values (3, 3, 3);
insert into public."coach" ("COACH_ID", "PLAYER_ID", "TEAM_ID") values (4, 4, 4);
insert into public."coach" ("COACH_ID", "PLAYER_ID", "TEAM_ID") values (5, 5, 5);

---- TABLE MATCH ----

CREATE TABLE IF NOT EXISTS public."match"
(
    "MATCH_ID" integer NOT NULL,
    "HOME_TEAM_ID" integer NOT NULL,
    "AWAY_TEAM_ID" integer NOT NULL,
    "HOME_SCORE" integer,
    "AWAY_SCORE" integer,
    "MATCH_DATE" date,
    CONSTRAINT "MATCH_pkey" PRIMARY KEY ("MATCH_ID"),
    CONSTRAINT "UNQ_TEAM_MATCH_DATE" UNIQUE ("HOME_TEAM_ID",
"AWAY_TEAM_ID", "MATCH_DATE")
);

-- TRIGGER FOR MATCH

-- Create a trigger function
CREATE OR REPLACE FUNCTION check_match_date()
    RETURNS TRIGGER AS
$$
```

```
DECLARE
  last_match_date date;
        date_diff interval;
        comparison_interval INTERVAL := INTERVAL '10';
BEGIN
  -- Retrieve the date of the last match for the home team/home team
  SELECT MAX("MATCH_DATE")
  INTO last_match_date
  FROM public."match"
  WHERE "HOME_TEAM_ID" = NEW."HOME_TEAM_ID";

  -- Check if there is a 10-day gap between the last match and the new match
  IF last_match_date IS NOT NULL THEN
    SELECT NEW."MATCH_DATE" - last_match_date INTO date_diff;
                RAISE NOTICE 'Last match date for home team/home team: %',
last_match_date;
    RAISE NOTICE 'New match date for home team/home team: %', NEW."MATCH_DATE";
    RAISE NOTICE 'Date difference: %', comparison_interval;
                RAISE NOTICE 'Date difference: %', date_diff;

    IF date_diff < comparison_interval THEN
      RAISE EXCEPTION 'There must be a 10-day gap between matches for the home
team/home team.';
    END IF;
  END IF;

        -- Retrieve the date of the last match for the home team/away team
        SELECT MAX("MATCH_DATE")
  INTO last_match_date
  FROM public."match"
  WHERE "AWAY_TEAM_ID" = NEW."HOME_TEAM_ID";
```

```
    -- Check if there is a 10-day gap between the last match and the new match
    IF last_match_date IS NOT NULL THEN
        SELECT NEW."MATCH_DATE" - last_match_date INTO date_diff;
                    RAISE NOTICE 'New match date for home team/home team: %',
NEW."MATCH_DATE";
        IF date_diff < comparison_interval THEN
          RAISE EXCEPTION 'There must be a 10-day gap between matches for the home
team/away team.';
        END IF;
    END IF;

    -- Retrieve the date of the last match for the away team/home team
    SELECT MAX("MATCH_DATE")
    INTO last_match_date
    FROM public."match"
    WHERE "HOME_TEAM_ID" = NEW."AWAY_TEAM_ID";

    -- Check if there is a 10-day gap between the last match and the new match
    IF last_match_date IS NOT NULL THEN
        SELECT NEW."MATCH_DATE" - last_match_date INTO date_diff;
                    RAISE NOTICE 'New match date for home team/home team: %',
NEW."MATCH_DATE";
        IF date_diff < comparison_interval THEN
          RAISE EXCEPTION 'There must be a 10-day gap between matches for the away
team/home team.';
        END IF;
    END IF;

        -- Retrieve the date of the last match for the away team/away team
    SELECT MAX("MATCH_DATE")
    INTO last_match_date
    FROM public."match"
```

```
   WHERE "AWAY_TEAM_ID" = NEW."AWAY_TEAM_ID";


   -- Check if there is a 10-day gap between the last match and the new match
   IF last_match_date IS NOT NULL THEN
      SELECT NEW."MATCH_DATE" - last_match_date INTO date_diff;
                        RAISE NOTICE 'New match date for home team/home team: %',
NEW."MATCH_DATE";
      IF date_diff < comparison_interval THEN
         RAISE EXCEPTION 'There must be a 10-day gap between matches for the away
team/away team.';
      END IF;
   END IF;


   RETURN NEW;
END;
$$
LANGUAGE plpgsql;


-- Create the trigger
CREATE TRIGGER enforce_10_day_gap
   BEFORE INSERT ON public."match"
   FOR EACH ROW
   EXECUTE FUNCTION check_match_date();


-- DATA FOR MATCH


insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID",
"HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (1, 1, 2, 2, 2, '11/09/2022');
insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID",
"HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (2, 1, 3, 4, 2, '21/09/2022');
insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID",
"HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (3, 1, 4, 3, 1, '01/10/2022');
```

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (4, 1, 5, 4, 2, '11/10/2022');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (5, 2, 1, 5, 3, '21/10/2022');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (6, 2, 3, 5, 5, '10/11/2022');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (7, 2, 4, 3, 1, '20/11/2022');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (8, 2, 5, 5, 2, '30/11/2022');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (9, 3, 1, 1, 5, '10/12/2022');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (10, 3, 2, 1, 3, '20/12/2022');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (11, 3, 4, 1, 5, '11/09/2022');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (12, 3, 5, 3, 1, '19/01/2023');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (13, 4, 1, 2, 1, '29/01/2023');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (14, 4, 2, 4, 2, '08/02/2023');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (15, 4, 3, 5, 4, '18/02/2023');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (16, 4, 5, 1, 4, '10/03/2023');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (17, 5, 1, 1, 5, '20/03/2023');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (18, 5, 2, 5, 3, '30/03/2023');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (19, 5, 3, 3, 4, '09/04/2023');

insert into public."match" ("MATCH_ID", "HOME_TEAM_ID", "AWAY_TEAM_ID", "HOME_SCORE", "AWAY_SCORE", "MATCH_DATE") values (20, 5, 4, 2, 3, '19/04/2023');

---- TABLE PLAYER_STAT ----

```
CREATE TABLE IF NOT EXISTS public."player_stat"
(
    "STAT_ID" integer NOT NULL,
    "PLAYER_ID" integer NOT NULL,
    "MATCH_ID" integer NOT NULL,
    "MINUTES" integer NOT NULL,
    "TIME" integer NOT NULL,
    "GOAL" integer,
    "GOAL_CANCEL" integer,
    "YELLOW_CARD" integer,
    "RED_CARD" integer,
    "PENALTY" integer,
    "CORNER" integer,
    CONSTRAINT "PLAYER_STAT_pkey" PRIMARY KEY ("STAT_ID", "PLAYER_ID", "MATCH_ID"),
    CONSTRAINT "PLAYER_STAT_MATCH_ID_fkey" FOREIGN KEY ("MATCH_ID")
        REFERENCES public."match" ("MATCH_ID") MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT "PLAYER_STAT_PLAYER_ID_fkey" FOREIGN KEY ("PLAYER_ID")
        REFERENCES public."player" ("PLAYER_ID") MATCH SIMPLE
        ON UPDATE NO ACTION
        ON DELETE NO ACTION,
    CONSTRAINT "PLAYER_STAT_check" CHECK ("GOAL" IS NOT NULL AND "GOAL_CANCEL" IS NULL AND "YELLOW_CARD" IS NULL AND "RED_CARD" IS NULL AND "PENALTY" IS NULL AND "CORNER" IS NULL OR "GOAL" IS NULL),
    CONSTRAINT "PLAYER_STAT_check1" CHECK ("GOAL" IS NULL AND "GOAL_CANCEL" IS NOT NULL AND "YELLOW_CARD" IS NULL AND "RED_CARD" IS NULL AND "PENALTY" IS NULL AND "CORNER" IS NULL OR "GOAL_CANCEL" IS NULL),
    CONSTRAINT "PLAYER_STAT_check2" CHECK ("GOAL" IS NULL AND "GOAL_CANCEL" IS NULL AND "YELLOW_CARD" IS NOT NULL AND "RED_CARD" IS NULL AND "PENALTY" IS NULL AND "CORNER" IS NULL OR "YELLOW_CARD" IS NULL),
    CONSTRAINT "PLAYER_STAT_check3" CHECK ("GOAL" IS NULL AND "GOAL_CANCEL" IS NULL AND "YELLOW_CARD" IS NULL AND "RED_CARD" IS NOT NULL AND "PENALTY" IS NULL AND "CORNER" IS NULL OR "RED_CARD" IS NULL),
```

```
   CONSTRAINT "PLAYER_STAT_check4" CHECK ("GOAL" IS NULL AND "GOAL_CANCEL" IS NULL AND "YELLOW_CARD" IS NULL AND "RED_CARD" IS NULL AND "PENALTY" IS NOT NULL AND "CORNER" IS NULL OR "PENALTY" IS NULL),

   CONSTRAINT "PLAYER_STAT_check5" CHECK ("GOAL" IS NULL AND "GOAL_CANCEL" IS NULL AND "YELLOW_CARD" IS NULL AND "RED_CARD" IS NULL AND "PENALTY" IS NULL AND "CORNER" IS NOT NULL OR "CORNER" IS NULL)

);


-- DATA FOR PLAYER_STAT


INSERT INTO public.player_stat(

        "STAT_ID", "PLAYER_ID", "MATCH_ID", "MINUTES", "TIME", "GOAL", "GOAL_CANCEL", "YELLOW_CARD", "RED_CARD", "PENALTY", "CORNER")

   VALUES

        (4,30,5,54,1,null,null,null,1,null,null),

        (5,20,15,61,42,null,null,null,null,1,null),

        (20,7,16,22,71,null,null,null,1,null,null),

        (21,27,6,36,40,null,null,1,null,null,null),

        (22,17,17,77,56,null,1,null,null,null,null),

        (23,26,16,21,31,1,null,null,null,null,null),

        (25,49,16,5,5,null,1,null,null,null,null),

        (26,28,20,2,53,null,null,1,null,null,null),

        (27,22,7,3,3,null,null,null,1,null,null),

        (28,5,7,59,31,null,null,null,null,1,null),

        (29,25,16,80,34,null,null,null,null,null,1),

        (30,40,20,84,89,null,null,null,null,null,1),

        (31,52,13,19,20,null,null,null,null,1,null),

        (32,29,9,31,57,null,null,null,1,null,null),

        (33,6,14,59,5,null,null,1,null,null,null),

        (34,19,4,20,64,null,1,null,null,null,null),

        (35,50,8,48,84,1,null,null,null,null,null),

        (36,39,14,52,41,1,null,null,null,null,null),

        (37,52,17,18,61,null,1,null,null,null,null),
```

(38,18,10,1,12,null,null,1,null,null,null),

(39,29,17,60,50,null,null,null,1,null,null),

(40,23,12,84,55,null,null,null,null,1,null),

(41,47,10,17,89,null,null,null,null,null,1),

(43,54,12,36,83,null,null,null,null,1,null),

(45,56,7,66,24,null,null,1,null,null,null),

(46,28,6,65,18,null,1,null,null,null,null),

(47,48,2,45,12,1,null,null,null,null,null),

(48,54,3,26,87,1,null,null,null,null,null),

(49,23,5,10,86,null,1,null,null,null,null),

(50,38,14,36,12,null,null,1,null,null,null),

(6,20,9,65,52,null,null,null,null,null,1),

(7,20,16,84,37,null,null,null,null,1,null),

(8,20,15,3,14,null,null,null,1,null,null),

(9,20,6,4,54,null,null,1,null,null,null),

(10,20,13,85,42,null,1,null,null,null,null),

(11,20,15,29,81,1,null,null,null,null,null),

(13,20,8,26,64,null,1,null,null,null,null),

(14,20,20,13,17,null,null,1,null,null,null),

(15,20,2,39,54,null,null,null,1,null,null),

(16,20,16,33,26,null,null,null,null,1,null),

(17,20,12,82,66,null,null,null,null,null,1),

(18,20,18,36,53,null,null,null,null,null,1),

(19,20,2,28,59,null,null,null,null,1,null),

(51,6,1,84,55,null,null,null,null,1,null),

(52,11,1,81,89,null,null,null,null,null,1),

(53,16,1,84,59,null,null,null,null,null,1),

(54,21,1,36,83,null,null,null,null,1,null),

(55,26,1,90,21,null,null,null,1,null,null),

(56,31,1,66,24,null,null,1,null,null,null),

(57,36,1,65,18,null,1,null,null,null,null),

(58,41,1,45,12,1,null,null,null,null,null),

(59,46,1,75,87,1,null,null,null,null,null),

(60,51,1,90,86,null,1,null,null,null,null),

(61,56,1,36,12,null,null,1,null,null,null),

(62,7,1,84,55,null,null,null,null,1,null),

(63,12,1,81,89,null,null,null,null,null,1),

(64,17,1,84,59,null,null,null,null,null,1),

(65,22,1,36,83,null,null,null,null,1,null),

(66,27,1,90,21,null,null,null,1,null,null),

(67,32,1,66,24,null,null,1,null,null,null),

(68,37,1,65,18,null,1,null,null,null,null),

(69,41,1,45,12,1,null,null,null,null,null),

(70,47,1,75,87,1,null,null,null,null,null),

(71,52,1,90,86,null,1,null,null,null,null),

(72,57,1,36,12,null,null,1,null,null,null),

(73,8,11,84,55,null,null,null,null,1,null),

(74,13,11,81,89,null,null,null,null,null,1),

(75,18,11,84,59,null,null,null,null,null,1),

(76,23,11,36,83,null,null,null,null,1,null),

(77,28,11,90,21,null,null,null,1,null,null),

(78,33,11,66,24,null,null,1,null,null,null),

(79,38,11,65,18,null,1,null,null,null,null),

(80,43,11,45,12,1,null,null,null,null,null),

(81,48,11,75,87,1,null,null,null,null,null),

(82,53,11,90,86,null,1,null,null,null,null),

(83,58,11,36,12,null,null,1,null,null,null),

(84,9,11,84,55,null,null,null,null,1,null),

(85,14,11,81,89,null,null,null,null,null,1),

(86,19,11,84,59,null,null,null,null,null,1),

(87,24,11,36,83,null,null,null,null,1,null),

(88,29,11,90,21,null,null,null,1,null,null),

```
        (89,34,11,66,24,null,null,1,null,null,null),
        (90,39,11,65,18,null,1,null,null,null,null),
        (91,44,11,45,12,1,null,null,null,null,null),
        (92,49,11,75,87,1,null,null,null,null,null),
        (93,54,11,90,86,null,1,null,null,null,null),
        (94,59,11,36,12,null,null,1,null,null,null),
        (1,18,12,40,43,1,null,null,null,null,null),
        (2,20,12,28,84,null,null,null,null,1,null),
        (12,21,16,45,20,1,null,null,null,null,null),
        (24,41,17,27,53,1,null,null,null,null,null),
        (42,7,5,84,59,null,null,null,null,null,1),
        (3,42,13,79,22,null,null,1,null,null,null),
        (44,38,15,9,21,null,null,null,1,null,null),
        (95,41,1,45,20,1,null,null,null,null,null);



--
--1.3.a
--
CREATE OR REPLACE VIEW public."MATCH_SCHEDULE" AS
SELECT
   M."MATCH_DATE",
   TH."STADIUM" AS STADIUM,
   TH."NAME" AS HOME_TEAM,
   TA."NAME" AS AWAY_TEAM,
   M."HOME_SCORE",
   M."AWAY_SCORE",
   NULL AS PLAYER_NAME,
   NULL AS POSITION,
   NULL AS MINUTES,
   NULL AS "GOAL(MINUTES)",
```

```
    NULL AS YELLOW_CARD,
    NULL AS RED_CARD,
    HP.HOME_PLAYERS,
    AP.AWAY_PLAYERS
FROM
    "match" M
    INNER JOIN "team" TH ON M."HOME_TEAM_ID" = TH."TEAM_ID"
    INNER JOIN "team" TA ON M."AWAY_TEAM_ID" = TA."TEAM_ID"
    LEFT JOIN (
        SELECT PH."TEAM_ID", STRING_AGG(PH."FIRST_NAME" || ' ' || PH."LAST_NAME", ', ')
AS HOME_PLAYERS
        FROM "player" PH
                    WHERE PH."ACTIVE" = TRUE
        GROUP BY PH."TEAM_ID"
    ) HP ON HP."TEAM_ID" = TH."TEAM_ID"
    LEFT JOIN (
        SELECT PA."TEAM_ID", STRING_AGG(PA."FIRST_NAME" || ' ' || PA."LAST_NAME", ', ') AS
AWAY_PLAYERS
        FROM "player" PA
                    WHERE PA."ACTIVE" = TRUE
        GROUP BY PA."TEAM_ID"
    ) AP ON AP."TEAM_ID" = TA."TEAM_ID"
WHERE
    M."MATCH_DATE" = '2022-09-11'
GROUP BY
    M."MATCH_DATE",
    TH."STADIUM",
    TH."NAME",
    TA."NAME",
    M."HOME_SCORE",
    M."AWAY_SCORE",
    HP.HOME_PLAYERS,
```

```
   AP.AWAY_PLAYERS


UNION ALL


SELECT
   M."MATCH_DATE",
   TH."STADIUM" AS STADIUM,
   CASE WHEN P."TEAM_ID" = M."HOME_TEAM_ID" THEN TH."NAME" ELSE NULL END AS
HOME_TEAM,
   CASE WHEN P."TEAM_ID" = M."AWAY_TEAM_ID" THEN TA."NAME" ELSE NULL END AS
AWAY_TEAM,
   NULL AS HOME_SCORE,
   NULL AS AWAY_SCORE,
   P."FIRST_NAME" || ' ' || P."LAST_NAME" AS PLAYER_NAME,
   P."POSITION",
         PS."MINUTES",
         CONCAT(
      PS."GOAL",
      CASE WHEN PS."GOAL" IS NOT NULL AND PS."RED_CARD" IS NULL THEN ' (' || PS."TIME"
|| ')' END
   ) AS "GOAL(MINUTES)",
   PS."YELLOW_CARD",
   PS."RED_CARD",
         NULL AS HOME_PLAYERS,
   NULL AS AWAY_PLAYERS
FROM
   "match" M
   INNER JOIN "team" TH ON M."HOME_TEAM_ID" = TH."TEAM_ID"
   INNER JOIN "team" TA ON M."AWAY_TEAM_ID" = TA."TEAM_ID"
   LEFT JOIN "player_stat" PS ON M."MATCH_ID" = PS."MATCH_ID"
   LEFT JOIN "player" P ON PS."PLAYER_ID" = P."PLAYER_ID"
WHERE
```

```
   M."MATCH_DATE" = '2022-09-11'
        AND (PS."GOAL" IS NOT NULL OR PS."RED_CARD" IS NOT NULL OR
PS."YELLOW_CARD" IS NOT NULL)
GROUP BY
   M."MATCH_DATE",
   TH."STADIUM",
   TH."NAME",
   TA."NAME",
        CASE WHEN P."TEAM_ID" = M."HOME_TEAM_ID" THEN TH."NAME" ELSE NULL END,
   CASE WHEN P."TEAM_ID" = M."AWAY_TEAM_ID" THEN TA."NAME" ELSE NULL END,
   PS."GOAL",
   PS."TIME",
   P."FIRST_NAME",
   P."LAST_NAME",
   PS."MINUTES",
   P."POSITION",
   PS."YELLOW_CARD",
   PS."RED_CARD";


--
--1.3.b
--
CREATE VIEW "ANUAL_FOOTBALL_CHAMPIONSHIP" AS
SELECT
  m."MATCH_DATE",
  TH."NAME" AS "HOME_TEAM",
  TA."NAME" AS "AWAY_TEAM",
  TH."STADIUM" AS "STADIUM",
  m."HOME_SCORE",
  m."AWAY_SCORE"
FROM
```

```
  public."match" m
JOIN
  public."team" TH ON m."HOME_TEAM_ID" = TH."TEAM_ID"
JOIN
  public."team" TA ON m."AWAY_TEAM_ID" = TA."TEAM_ID"
WHERE
  m."MATCH_DATE" BETWEEN '{2022-09-01}' AND '{2023-06-30}';



--
--2.1
--
SELECT p."FIRST_NAME" || ' ' || p."LAST_NAME" AS "ΠΡΟΠΟΝΗΤΗΣ"
FROM "match" m
JOIN "player" p ON m."HOME_TEAM_ID" = p."TEAM_ID" OR m."AWAY_TEAM_ID" =
p."TEAM_ID"
WHERE m."MATCH_ID" = 1
  AND p."TEAM_ID" = 1 AND p."ACTIVE" = false;


--
--2.2
--
SELECT
  p."FIRST_NAME" || ' ' || p."LAST_NAME" AS "ΠΑΙΚΤΗΣ",
  ps."TIME" AS "ΧΡΟΝΙΚΗ_ΣΤΙΓΜΗ",
  ps."GOAL" AS "ΓΚΟΛ",
  ps."PENALTY" AS "ΠΕΝΑΛΤΙ"
FROM
  public."player_stat" ps
JOIN
  public."player" p ON ps."PLAYER_ID" = p."PLAYER_ID"
```

```
WHERE
  ps."MATCH_ID" = 1
  AND (ps."GOAL" IS NOT NULL OR ps."PENALTY" IS NOT NULL);


--
--2.3
--
SELECT
  SUM(ps."GOAL") AS "ΣΥΝΟΛΟ_ΓΚΟΛ",
  SUM(ps."PENALTY") AS "ΣΥΝΟΛΟ_ΠΕΝΑΛΤΙ",
  SUM(ps."YELLOW_CARD") || ' / ' || SUM(ps."RED_CARD") AS "ΚΙΤΡΙΝΕΣ_ΚΑΡΤΕΣ / ΚΟΚΚΙΝΕΣ_ΚΑΡΤΕΣ",
  SUM(ps."MINUTES") AS "ΣΥΝΟΛΟ_ΛΕΠΤΑ_ΑΓΩΝΑ",
  p."POSITION" AS "ΘΕΣΗ_ΠΑΙΚΤΗ"
FROM
  public."player_stat" ps
JOIN
  public."player" p ON ps."PLAYER_ID" = p."PLAYER_ID"
WHERE
  p."PLAYER_ID" = 18
GROUP BY
  p."POSITION";


--
-- 2.4
--
SELECT
  COUNT(*) AS "ΣΥΝΟΛΙΚΟΙ_ΑΓΩΝΕΣ",
  SUM(CASE WHEN m."HOME_TEAM_ID" = 1 THEN 1 ELSE 0 END) AS "ΓΗΠΕΔΟΥΧΟΣ",
  SUM(CASE WHEN m."AWAY_TEAM_ID" = 1 THEN 1 ELSE 0 END) AS "ΦΙΛΟΞΕΝΟΥΜΕΝΟΣ",
  SUM(CASE WHEN m."HOME_TEAM_ID" = 1 AND m."HOME_SCORE" > m."AWAY_SCORE" THEN 1
```

```
        WHEN m."AWAY_TEAM_ID" = 1 AND m."AWAY_SCORE" > m."HOME_SCORE" THEN 1
        ELSE 0 END) AS "ΝΙΚΕΣ",
  SUM(CASE WHEN m."HOME_TEAM_ID" = 1 AND m."HOME_SCORE" < m."AWAY_SCORE" THEN 1
        WHEN m."AWAY_TEAM_ID" = 1 AND m."AWAY_SCORE" < m."HOME_SCORE" THEN 1
        ELSE 0 END) AS "ΑΡΙΘΜΟΣ_ΗΤΤΕΣ",
  SUM(CASE WHEN m."HOME_TEAM_ID" = 1 AND m."HOME_SCORE" = m."AWAY_SCORE" THEN 1
        WHEN m."AWAY_TEAM_ID" = 1 AND m."AWAY_SCORE" = m."HOME_SCORE" THEN 1
        ELSE 0 END) AS "ΙΣΟΠΑΛΙΕΣ",
  SUM(CASE WHEN m."HOME_TEAM_ID" = 1 AND m."HOME_SCORE" > m."AWAY_SCORE" THEN 1 ELSE 0 END) AS "ΝΙΚΕΣ_ΕΝΤΟΣ",
  SUM(CASE WHEN m."HOME_TEAM_ID" = 1 AND m."HOME_SCORE" < m."AWAY_SCORE" THEN 1 ELSE 0 END) AS "ΗΤΤΕΣ_ΕΝΤΟΣ",
  SUM(CASE WHEN m."HOME_TEAM_ID" = 1 AND m."HOME_SCORE" = m."AWAY_SCORE" THEN 1 ELSE 0 END) AS "ΙΣΟΠΑΛΙΕΣ_ΕΝΤΟΣ",
  SUM(CASE WHEN m."AWAY_TEAM_ID" = 1 AND m."AWAY_SCORE" > m."HOME_SCORE" THEN 1 ELSE 0 END) AS "ΝΙΚΕΣ_ΕΚΤΟΣ",
  SUM(CASE WHEN m."AWAY_TEAM_ID" = 1 AND m."AWAY_SCORE" < m."HOME_SCORE" THEN 1 ELSE 0 END) AS "ΗΤΤΕΣ_ΕΚΤΟΣ",
  SUM(CASE WHEN m."AWAY_TEAM_ID" = 1 AND m."AWAY_SCORE" = m."HOME_SCORE" THEN 1 ELSE 0 END) AS "ΙΣΟΠΑΛΙΕΣ_ΕΚΤΟΣ"
FROM public."match" AS m
WHERE
  (m."HOME_TEAM_ID" = 1 OR m."AWAY_TEAM_ID" = 1);



--
--3.1
--
CREATE TABLE IF NOT EXISTS public."DELETED_TEAM"
(
    "TEAM_ID" integer,
    "NAME" character varying COLLATE pg_catalog."default" NOT NULL,
```

```
    "STADIUM" character varying COLLATE pg_catalog."default",
    "DSCR" character varying COLLATE pg_catalog."default",
    "HOME_WINS" integer,
    "AWAY_WINS" integer,
    "HOME_LOSSES" integer,
    "AWAY_LOSSES" integer,
    "HOME_DRAWS" integer,
    "AWAY_DRAWS" integer,
    CONSTRAINT "DELETE_TEAM_pkey" PRIMARY KEY ("TEAM_ID")
);

-- Δημιουργία trigger
CREATE OR REPLACE FUNCTION "TEAM_DELETE_TRIGGER"()
    RETURNS TRIGGER AS $$
BEGIN
    -- Εισαγωγή διαγραμμένων γραμμών στον table DELETED_TEAM
    INSERT INTO public."DELETED_TEAM" ("TEAM_ID", "NAME", "STADIUM", "DSCR",
"HOME_WINS", "AWAY_WINS", "HOME_LOSSES", "AWAY_LOSSES", "HOME_DRAWS",
"AWAY_DRAWS")
    VALUES (OLD."TEAM_ID", OLD."NAME", OLD."STADIUM", OLD."DSCR",
OLD."HOME_WINS", OLD."AWAY_WINS", OLD."HOME_LOSSES", OLD."AWAY_LOSSES",
OLD."HOME_DRAWS", OLD."AWAY_DRAWS");

    RETURN OLD;
END;
$$ LANGUAGE plpgsql;

-- Σύνδεση του trigger με τον table "TEAM"
CREATE TRIGGER "TEAM_DELETE_TRIGGER"
AFTER DELETE ON public."team"
FOR EACH ROW
EXECUTE FUNCTION "TEAM_DELETE_TRIGGER"();
```

```
--
--3.2
--
DO $$
DECLARE
 cur CURSOR FOR
  SELECT
   p."FIRST_NAME",
   p."LAST_NAME",
   t."NAME" AS "TEAM_NAME",
   m."MATCH_ID",
   m."MATCH_DATE",
   ps."GOAL",
   ps."PENALTY",
   ps."YELLOW_CARD",
   ps."RED_CARD",
   ps."MINUTES",
   p."POSITION"
  FROM
   public."player_stat" ps
   INNER JOIN public."player" p ON ps."PLAYER_ID" = p."PLAYER_ID"
   INNER JOIN public."match" m ON ps."MATCH_ID" = m."MATCH_ID"
   INNER JOIN public."team" t ON p."TEAM_ID" = t."TEAM_ID"
  ORDER BY
   m."MATCH_ID", t."NAME";

 v_first_name character varying(10);
 v_last_name character varying(10);
 v_team_name character varying;
 v_match_id integer;
```

```
 v_match_date date[];
 v_goal integer;
 v_penalty integer;
 v_yellow_card integer;
 v_red_card integer;
 v_minutes integer;
 v_position character varying;

 status integer;
 row_count integer := 0; -- Counter variable for row count
BEGIN
 OPEN cur;

 LOOP
  FETCH cur INTO
   v_first_name,
   v_last_name,
   v_team_name,
   v_match_id,
   v_match_date,
   v_goal,
   v_penalty,
   v_yellow_card,
   v_red_card,
   v_minutes,
   v_position;

  -- Check if cursor is empty or all rows have been fetched
  EXIT WHEN NOT FOUND;

  -- Display the current row
```

```
    RAISE NOTICE 'Player: % %, Team: %, Match ID: %, Match Date: %, Goals: %, Penalties: %,
Yellow Cards: %, Red Cards: %, Minutes Played: %, Position: %',
      v_first_name, v_last_name, v_team_name, v_match_id, v_match_date, v_goal,
v_penalty, v_yellow_card, v_red_card, v_minutes, v_position;

    -- Increment the row count
    row_count := row_count + 1;

    -- Check if 10 rows have been displayed, if yes, ask for continuation
    IF row_count % 10 = 0 THEN
      RAISE NOTICE 'Press any key to display the next 10 rows...';
      GET DIAGNOSTICS status = ROW_COUNT;
    END IF;
  END LOOP;

  CLOSE cur;
END $$;
```