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Requirements for a Football Club Database

I. System Description and Constraints

A football club is divided into several sections such as staff, team, stadium, department, equipment, sponsors, contracts, and player. There are various types of staff such as manager, assistant manager, chief analyst, fitness coach, nutritionist, physiotherapist, and scout. Every staff member has certain responsibility like managing the schedule, supervising players, for instance, some staff are in charge of giving feedback about the player performance. Most football clubs earn profits by selling tickets of several types, for example, we have front seats that are sold at a higher price than the back seats. Eventually, people can buy tickets from the stadium which are identified by their identification number. Moreover, there is a specific type of ticket that gives access to people in order to have a tour in the stadium. The football field is the most important characteristic of a football academy. Moreover, the stadium is characterized by its name, number of seats, and location. Additionally, there are several departments in the stadium, each of which has a certain role. Departments are defined by their name and department number. Moreover, each department has a unique extension in order to contact them. For instance, some types of departments are club services, board of directors, business operations, and football techniques development. Each football team department requires certain equipment's. For example, the players require balls, boots, shin guards, socks, and goalkeeper gloves. Furthermore, the coaching staff requires board, marker, desk, chairs, and computers for replay purposes. Moreover, there are facilities such as fitness center for physiotherapy, training, and recovery. Every football club has several sponsors which contribute to the funding of the team. For instance, the famous brands Adidas and Nike sponsor almost all of the football clubs with their merchandise. Additionally, players are sponsored by various companies for advertising purposes. The contract is one of the most significant factor that contributes in the interest of the player in the team. The most important characteristic of the contract signed by the player is the role and salary. Some types of contracts are transfer, loan, and renew. Finally, the player occupies the main role in the team.

They are mainly defined by their kit number. In addition, there are several positions such as goalkeeper, defenders, midfielders, and attackers.

II. Entities

1-Staff:

In a football club, there are several job positions for the staff members, for instance, manager, assistant manager, chief analyst, fitness coach, nutritionist, physiotherapist, scout, and each position have a specific salary. They are distinguished by their name, id, address, and phone number. Staff are organized according to which department they work for. In addition, players are supervised by the staff mentioned above.

2-Ticket:

The ticket is used to identify the availability of seats in the stadium. Furthermore, there are several types of tickets each of which has a certain price, and they are bought from the stadium. Additionally, the ticket provides the buyer with a certain ticket identification number which represents which seat is reserved, and the date of game.

3-Team:

Most major cities in the world are represented by a football team. The name chosen for a certain team has a unique meaning. In the football league, the team's rank is related to the game victories or defeats. Most of the football teams represent sponsors which contributes assistance to the team in several aspects. Each team consists of several divisions, where each division has its own stadium that they train or play games in.

4-Stadium:

Every football club has a main stadium which has a unique name and a location which represents the team. The capacity of the stadium differs from one to another, for instance, the maximum number of seats varies between stadiums. The stadium consists of several departments and has various equipment's. Every stadium requires maintenance in order to

stay functional. The stadium also has a contact number in order to communicate with fans for several purposes like summer camps, tours, and information concerning the schedule.

5-Department:

The stadium of a football academy consists of various departments, where each one has a role. Departments are defined by a specific number and name. People can contact a particular department by their fixed extension.

6-Equipement:

The equipment in the stadium comprise of several types, each one has a certain identification number. In addition, the equipment is identified by their brand. Moreover, the quantity purchased, and cost of such equipment's are stored on a certain record.

7-Sponsors:

Most important football academies have several sponsors which help them to improve and grow internationally. Sponsors are recognized by their name and type. Moreover, most sponsors have a website that provide the location of the company. Furthermore, there is a record about when the deal was done between the club and the company.

8-Contract:

In every football club, players sign a contract which includes the information about the contract duration, player salary, and the date when the contract was made. Additionally, there are several types of contract like deals with staff members, the factories that provide the club with equipment, and the sponsors. The role is related to each member in the club, for example, the position of the player in the roster of the team or the job title of each staff member. Moreover, the settlement includes additional fees that are paid by the club.

9-Schedule:

The schedule of each players or staff members is composed of a start time, break hours, and end time. The staff are responsible to responsible to organize the timing of the schedule.

Moreover, they arrange the timing for specific meetings.

10-Player:

Every football player in any club has a remarkable kit number that has a meaning for him. On every jersey in the team, the kit number and the players' name are written on it. Moreover, players have different nationality where they represent their own country. There are records stored in a specific department about the birth date, address, and phone number for every player on the roster. In the team, each player has a specified position such as goalkeeper, defender, middle fielder, and attacker. Some sponsors pay specific players for advertising purposes.

11-Locker:

Each player owns a locker which has a unique id, code to access it, and status to check if the locker is occupied or not.

III. Relationships



One staff can "work on" one of the schedule. Hence, the participation is total on both sides of the relation, since every staff member is ready to "work on" a certain schedule, and the schedule is created for each staff member.



Many staff can "work in" many departments according to the department number and the staff title. The total participation is total on both sides of the relation.



One department can "have many" equipment's, according to the department number and equipment id.



Many football teams "play in" one stadium, since multiple teams can compete against each other on one stadium.



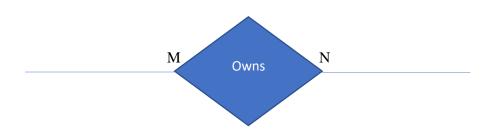
Many stadiums "advertise" many sponsors, since most sponsors get their ADS and merch through the Stadium commercials.



All the tickets of the matches are sold to many stadiums according to their price and their match day.



One player must "sign" only one contract in order to play with the team. There is only one total participation at the side of the player entity.



Many players can "own" many lockers according to their kit number and locker id.



Some of the players can be "sponsored" by a sponsor according to the sponsor name and the player name.

IV. ER to relational mapping:

Step 1: Mapping of regular Entity types:

Department:

<u>Dnum</u>	Extension	Location	Name

There are neither multi-valued attributes nor foreign keys in this relation. Consequently, all of its attributes appears in this schema. The <u>Dnum</u> is the primary key for this relation.

Locker:

Locker_ID	Code	Status

There are neither multi-valued attributes nor foreign keys in this relation. Consequently, all of its attributes appears in this schema. The <u>Locker ID</u> is the primary key for this relation.

Equipment:

<u>Eq_ID</u>	Туре	Brand	Cost	Quantity
--------------	------	-------	------	----------

There are neither multi-valued attributes nor foreign keys in this relation. Thus, all of its attributes appears in this schema. The <u>Eq_ID</u> is the primary key for this relation.

Stadium:

St_name	Location	Number of seats	Match day	Contact
				Information

There are neither multi-valued attributes nor foreign key in this relation. Thus, all of its attributes appears in this schema. The <u>St_name</u> is the primary key for this relation.

Ticket:

Ticket_ID	Price	Date	Availability

There are neither multi-valued attributes nor foreign key in this relation. Thus, all of its attributes appears in this schema. The <u>Ticket ID</u> is the primary key for this relation.

Staff:

Staff_ID	F_name	M_initial	L_name	Title	Salary	Address	Phone
							number

There is only one multi-valued attributes which is phone number, but it does not contain a foreign key in this relation. It has a composite attribute called name of which the set of simple attributes are F_name, M_initial, and L_name. Thus, all of its attributes appears in this schema. The <u>Staff_ID</u> is the primary key for this relation.

Team:

<u>T_name</u>	City	Rank
---------------	------	------

There are neither multi-valued attributes nor foreign key in this relation. Thus, all of its attributes appears in this schema. The \underline{T} name is the primary key for this relation.

Player:

Kit_number	F_name	M_initial	L_name	Address	Nationality	Position	Birth
							date

There is only one multi-valued attributes which is phone number, but it does not contain a foreign key in this relation. It has a composite attribute called name of which the set of

simple attributes are F_name, M_initial, and L_name. Thus, all of its attributes appears in this schema. The <u>Kit_number</u> is the primary key for this relation.

Sponsor:

Sponsor_Name	Туре	Location	Website	Date of
				sponsorship

There are neither multi-valued attributes nor foreign key in this relation. Thus, all of its attributes appears in this schema. The <u>Sponsor_Name</u> is the primary key for this relation.

Contract:

Contract_ID	Type	Role	Salary	Date	Additional
					fees

There are neither multi-valued attributes nor foreign key in this relation. Thus, all of its attributes appears in this schema. The <u>Contract_ID</u> is the primary key for this relation.

Step 2: Mapping of Weak Entity Types:

Schedule:

Schedule_ID	Start Time	End Time	Break hours

The weak entity schedule has neither multi-valued attributes nor foreign keys in this relation. Thus, all of its attributes appear in this schema.

Step 3: Mapping of binary 1 to 1 relationship:

Player:

<u>Kit_number</u>	F_name	M_initial	L_name	Address	Nationality	Position	Birth	Contract_ID	Length
							date		

The "Sign" relation is the relationship that links the player entity and contract entity. The total participation is at the side of the player entity. It has no relationship attributes. The Contract_ID is a foreign key of the contract entity.

Staff:

Staff_ID F_name M_ir	l L_name Title	Salary Address	Phone number	Number of hours
----------------------	----------------	----------------	--------------	-----------------

The "Works on" relation is the relationship that links the staff entity with the weak entity schedule. The total participation is at both sides. In addition, we add to the relation the number of hours which is an attribute of the relation.

Step 4: Mapping of binary 1 to N relationship:

Equipment:

<u>Eq_ID</u>	Type	Brand	Cost	Quantity	Dnum
--------------	------	-------	------	----------	------

The "Has" relation is the relationship that links the equipment entity with the department entity. It has no relationship attributes. The Dnum is a foreign key of the department entity.

Team:

<u>T_name</u>	City	Rank	St_name

The "Play in" relation is the relationship that links the team entity and stadium entity. It has no relationship attributes. The St_name is a foreign key of the stadium entity.

Player:

Kit_number F_name M_initial L_nam	e Address Nation	nality Position Bi	Sirth date Sponsor_Name
-----------------------------------	------------------	------------------------	---------------------------

The "Sponsors" relation is the relationship that links the player entity with the sponsor entity. It has no relationship attributes. The Sponsor_Name is a foreign key of the sponsor entity.

Player:

Nationality Position Birth date T_Name	Address	L_name	M_initial	F_name	<u>Kit_number</u>
--	---------	--------	-----------	--------	-------------------

The "Plays for" relation is the relationship that links the player entity with the team entity. It has no relationship attributes. The T_Name is a foreign key of the sponsor entity.

Staff:

Staff_ID	F_name	M_initial	L_name	Title	Salary	Address	Phone number	Dnum

The "Works in" relation is the relationship that links the staff entity and department entity. It has no relationship attributes. The Dnum is a foreign key of the department entity.

Step 5: Mapping of binary M to N relationship:

Sells:

<u>Ticket_ID</u>	Stadium name

The "Sells" relation is the relationship that links the ticket entity with the stadium entity. It has no relationship attributes. Hence, this relation is composed of the primary keys of the participating entities.

OWNS:

Kit	<u>number</u>	Locker_ID

The "owns" relation is the relationship that links the locker entity with the player entity. It has no relationship attributes. Hence, this relation is composed of the primary keys of the participating entities.

Advertises:

The "Advertises" relation is the relationship that links the sponsor entity with the stadium entity. It has no relationship attributes. Hence, this relation is composed of the primary keys of the participating entities.

Step 6: Mapping of Multi-valued Attributes:

Player-Phone-number:

We need to create a schema construct called player-phone-number to represent the multi-valued attribute phone number. The primary keys of the schema is made up of the player's primary key, called <u>Kit Number</u>, and the attribute value <u>Player-number#</u>. The <u>Player-number#</u> attribute represents the player phone number.

Staff-Phone-Number:

	Staff_ID	Staff-number#	
--	----------	---------------	--

We need to create a schema construct called staff-phone-number to represent the multi-valued attribute phone number. The primary keys of the schema is made up of the staff's primary key, called Staff_ID, and the attribute value Staff-number#. The Staff-number# attribute represents the staff phone number.

Step 7: Mapping of N-ary relationship:

In the seventh step, we map the N-ary relationship types. To accomplish that, we create a new schema that takes the name of the relation. The schema's attributes consist of the primary keys of every entity connected by this relation. The extra attributes are the relational attributes of the N-ary relation that is being mapped. However, step 7 is not applicable here.

Final Display:

Ticket:

Ticket_ID	Price	Match Date	Availability
-----------	-------	------------	--------------

Team:

Name City Rank Stadium Name	<u>Name</u>	City		Stadium Name
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Staff-Phone-Number

Staff_ID	Phone Number

Staff:

	<u>ID</u>	Title	FName	M_Initial	LName	Address	Salary	D_Num	
--	-----------	-------	-------	-----------	-------	---------	--------	-------	--

Stadium:

Name		Location	Contact_Information	Match_Date	Number_Of_Seats
------	--	----------	---------------------	------------	-----------------

Sponsor:

Name Type	Location	Date_Of_Sponsorship \ \	Website
-----------	----------	-------------------------	---------

Sells:

Stadium_Name	Ticket_ID	Ticket_Type

Player:

Sche	dule:
------	-------

	Start_Time	End_Time	Break_Hours	Schedule_ID	Staff_ID
--	------------	----------	-------------	-------------	----------

Player-Phone-Number:

		Kit_N	Phone_Num
--	--	-------	-----------

Locker:

<u>ID</u>	Code	Status

Equipment:

Quantity <u>Eq. I</u>	<u>O</u> Type	Cost	Brand	Dep_Num
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Department:

D_Number	Extension	Name	Location

Contract:

Type	Salary	Role	D_O_S	Add_Fees	Contract_ID	Length	Kit_Num
------	--------	------	-------	----------	-------------	--------	---------

Advertises:

St_Name	Sponsor_Name

V. <u>Table Structure for the Athletic Club Database:</u>

```
1. Table Structure for the "TICKETS":
```

```
CREATE TABLE "NAAMANIHADI"."TICKET"

( "TICKET_ID" NUMBER NOT NULL ENABLE,
    "PRICE" NUMBER NOT NULL ENABLE,
    "MATCH_DATE" DATE NOT NULL ENABLE,
    "AVAILABILITY" CHAR (1 BYTE) NOT NULL ENABLE,
    CONSTRAINT "TICKET_PK" PRIMARY KEY ("TICKET_ID")
);
```

2. Table Structure for the "TEAM":

```
CREATE TABLE "NAAMANIHADI"."TEAM"

( "NAME" VARCHAR2(20 BYTE) NOT NULL ENABLE,
 "CITY" CHAR (20 BYTE) NOT NULL ENABLE,
 "RANK" NUMBER (*,0) NOT NULL ENABLE,
 "STADIUM_NAME" CHAR (40 BYTE) NOT NULL ENABLE,
 PRIMARY KEY ("NAME")
 CONSTRAINT "FK_T" FOREIGN KEY ("STADIUM_NAME")
 REFERENCES "NAAMANIHADI"."STADIUM" ("NAME") ENABLE
);
```

Table Structure for the "STAFF PHONE NUMBER":

```
CREATE TABLE "NAAMANIHADI"."STAFF_PHONE_NUMBER"

( "STAFFID" NUMBER NOT NULL ENABLE,

"PHONE_NUMBER" VARCHAR2(20 BYTE) NOT NULL ENABLE,

CONSTRAINT "STAFF_PHONE_NUMBER_PK" PRIMARY KEY ("STAFFID",

"PHONE_NUMBER")

CONSTRAINT "FK_SPH" FOREIGN KEY ("STAFFID")

REFERENCES "NAAMANIHADI"."STAFF" ("ID") ENABLE

);
```

4. Table Structure for the "STAFF":

```
CREATE TABLE "NAAMANIHADI"."STAFF"

( "ID" NUMBER NOT NULL ENABLE,

"TITLE" CHAR (20 BYTE) NOT NULL ENABLE,

"FNAME" CHAR (10 BYTE) NOT NULL ENABLE,
```

```
"M INITIAL" CHAR (2 BYTE) NOT NULL ENABLE,
         "LNAME" CHAR (10 BYTE) NOT NULL ENABLE,
         "ADDRESS" VARCHAR2(60 BYTE) NOT NULL ENABLE,
         "SALARY" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "D_NUM" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         CONSTRAINT "STAFF_PK" PRIMARY KEY ("ID")
          CONSTRAINT "PK_SS1" FOREIGN KEY ("D_NUM")
                REFERENCES "NAAMANIHADI". "DEPARTMENT" ("D_NUMBER") ENABLE
    );
5. Table Structure for the "STADIUM":
   CREATE TABLE "NAAMANIHADI". "STADIUM"
         "NAME" CHAR (40 BYTE) NOT NULL ENABLE,
         "LOCATION" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "CONTACT INFORMATION" VARCHAR2(20 BYTE),
         "MATCH DAY" DATE NOT NULL ENABLE,
         "NUMBER OF SEATS" NUMBER (*,0) NOT NULL ENABLE,
         CONSTRAINT "STADIUM PK" PRIMARY KEY ("NAME")
   );
6. Table Structure for the "SPONSOR":
   CREATE TABLE "NAAMANIHADI". "SPONSOR"
         "NAME" CHAR (20 BYTE) NOT NULL ENABLE,
         "TYPE" CHAR (20 BYTE) NOT NULL ENABLE,
         "LOCATION" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "DATE OF SPONSORSHIP" DATE NOT NULL ENABLE,
         "WEBSITE" VARCHAR2(30 BYTE),
         CONSTRAINT "SPONSOR PK" PRIMARY KEY ("NAME") );
7. Table Structure for "SELLS":
   CREATE TABLE "NAAMANIHADI". "SELLS"
         "NAME" CHAR (40 BYTE) NOT NULL ENABLE,
         "TICKET ID" NUMBER (*,0) NOT NULL ENABLE,
         "TICKET TYPE" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         CONSTRAINT "TABLE1 PK" PRIMARY KEY ("NAME", "TICKET ID")
   FOREIGN KEY ("NAME")
          REFERENCES "NAAMANIHADI". "STADIUM" ("NAME") ENABLE,
          FOREIGN KEY ("TICKET ID")
```

```
REFERENCES "NAAMANIHADI"."TICKET" ("TICKET_ID") ENABLE
);
```

8. Table Structure for the "SCHEDULE":

```
CREATE TABLE "NAAMANIHADI"."SCHEDULE"

( "START_TIME" VARCHAR2(10 BYTE) NOT NULL ENABLE,
  "END_TIME" VARCHAR2(10 BYTE) NOT NULL ENABLE,
  "BREAK_HOURS" NUMBER (*,0) NOT NULL ENABLE,
  "SCHEDULE_ID" NUMBER (*,0) NOT NULL ENABLE,
  "STAFF_ID" NUMBER,
  CONSTRAINT "STAFF_FK" FOREIGN KEY ("SCHEDULE_ID")
  REFERENCES "NAAMANIHADI"."STAFF" ("ID") ENABLE,
  CONSTRAINT "FK_SCH" FOREIGN KEY ("STAFF_ID")
  REFERENCES "NAAMANIHADI"."STAFF" ("ID") ENABLE
);
```

9. Table Structure for the "PLAYER":

```
CREATE TABLE "NAAMANIHADI"."PLAYER1"
      "KIT NUMBER" NUMBER (*,0) NOT NULL ENABLE,
      "FNAME" CHAR (30 BYTE) NOT NULL ENABLE,
      "MIDDLE INITIAL" CHAR (2 BYTE) NOT NULL ENABLE,
      "LNAME" VARCHAR2(30 BYTE) NOT NULL ENABLE,
      "NATIONALITY" CHAR (20 BYTE) NOT NULL ENABLE,
      "BIRTH DATE" DATE NOT NULL ENABLE,
      "POSITION" CHAR (3 BYTE) NOT NULL ENABLE,
      "LOCATION" VARCHAR2(40 BYTE) NOT NULL ENABLE,
      "SPONSOR NAME" CHAR (20 BYTE) NOT NULL ENABLE,
"T NAME" VARCHAR2(20 BYTE) NOT NULL ENABLE,
      CONSTRAINT "PLAYER1 PK" PRIMARY KEY ("KIT NUMBER")
CONSTRAINT "FK S" FOREIGN KEY ("SPONSOR NAME")
       REFERENCES "NAAMANIHADI". "SPONSOR" ("NAME") ENABLE,
      CONSTRAINT "X FK" FOREIGN KEY ("T NAME")
       REFERENCES "NAAMANIHADI". "TEAM" ("NAME") ENABLE
 );
```

10. Table Structure for "PLAYER PHONE NUMBER":

```
CREATE TABLE "NAAMANIHADI". "PLAYER PHONE NUMBER"
         "KIT N" NUMBER (*,0) NOT NULL ENABLE,
         "PHONE NUM" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         CONSTRAINT "PLAYER PHONE NUMBER PK" PRIMARY KEY ("KIT N",
   "PHONE NUM")
         CONSTRAINT "FK_PH" FOREIGN KEY ("KIT_N")
          REFERENCES "NAAMANIHADI". "PLAYER1" ("KIT_NUMBER") ENABLE
    );
11. Table Structure for "OWNS":
   CREATE TABLE "NAAMANIHADI". "OWNS"
         "KIT NUMBER" NUMBER (*,0) NOT NULL ENABLE,
         "LOCKER ID" NUMBER NOT NULL ENABLE,
         CONSTRAINT "OWNS PK" PRIMARY KEY ("KIT NUMBER", "LOCKER ID")
   CONSTRAINT "L FK" FOREIGN KEY ("LOCKER ID")
          REFERENCES "NAAMANIHADI"."LOCKER" ("ID") ENABLE,
          CONSTRAINT "P FK" FOREIGN KEY ("KIT NUMBER")
          REFERENCES "NAAMANIHADI". "PLAYER1" ("KIT NUMBER") ENABLE
   );
12. Table Structure for "LOCKER":
   CREATE TABLE "NAAMANIHADI"."LOCKER"
         "ID" NUMBER NOT NULL ENABLE,
         "CODE" VARCHAR2(10 BYTE) NOT NULL ENABLE,
         "STATUS" CHAR (10 BYTE) NOT NULL ENABLE,
         CONSTRAINT "LOCKER PK" PRIMARY KEY ("ID")
   );
13. Table Structure for "EQUIPMENT":
   CREATE TABLE "NAAMANIHADI"."EQUIPMENT"
         "QUANTITY" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "EQ ID" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "TYPE" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "COST" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "BRAND" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "DEP NUM" VARCHAR2(20 BYTE),
         CONSTRAINT "EQUIPMENT PK" PRIMARY KEY ("EQ ID")
```

```
CONSTRAINT "FK EQ" FOREIGN KEY ("DEP NUM")
          REFERENCES "NAAMANIHADI". "DEPARTMENT" ("D_NUMBER") ENABLE
    );
14. Table Structure for the "DEPARTMENT":
   CREATE TABLE "NAAMANIHADI"."DEPARTMENT"
         "D NUMBER" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "EXTENSION" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "NAME" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "LOCATION" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         CONSTRAINT "DEPARTMENT PK" PRIMARY KEY ("D NUMBER")
   );
15. Table Structure of the "CONTRACT":
   CREATE TABLE "NAAMANIHADI"."CONTRACT"
         "TYPE" CHAR (10 BYTE) NOT NULL ENABLE,
         "SALARY" NUMBER NOT NULL ENABLE,
         "ROLE" CHAR (10 BYTE) NOT NULL ENABLE,
         "DATE OF SIGNING" DATE NOT NULL ENABLE,
         "ADDITIONAL FEES" NUMBER,
         "CONTRACT ID" VARCHAR2(20 BYTE) NOT NULL ENABLE,
         "LENGTH" NUMBER,
         "KIT NUM" NUMBER (*,0),
         CONSTRAINT "CONTRACT PK" PRIMARY KEY ("CONTRACT ID")
         CONSTRAINT "FK P" FOREIGN KEY ("KIT NUM")
          REFERENCES "NAAMANIHADI". "PLAYER1" ("KIT NUMBER") ENABLE
    );
16. Table Structure of "ADVERTISES":
   CREATE TABLE "NAAMANIHADI"."ADVERTISES"
         "ST NAME" CHAR (40 BYTE) NOT NULL ENABLE,
         "SPONSOR NAME" CHAR (20 BYTE) NOT NULL ENABLE,
         CONSTRAINT "ADVERTISES PK" PRIMARY KEY ("ST NAME", "SPONSOR NAME")
          FOREIGN KEY ("ST NAME")
          REFERENCES "NAAMANIHADI". "STADIUM" ("NAME") ENABLE,
          FOREIGN KEY ("SPONSOR NAME")
          REFERENCES "NAAMANIHADI". "SPONSOR" ("NAME") ENABLE
    );
```

VI. <u>Table Description:</u>

1. Table "TICKET":

Describe TICKET;

		♦ NULLABLE	DATA_DEFAULT		
TICKET_ID	NUMBER	No	(null)	1	(null)
PRICE	NUMBER	No	(null)	2	(null)
MATCH_DATE	DATE	No	(null)	3	(null)
AVAILABILITY	CHAR (1 BYTE)	No	(null)	4	(null)

2. Table "TEAM":

Describe TEAM;

	DATA_TYPE	NULLABLE	DATA_DEFAULT		
NAME	VARCHAR2 (20 BYTE)	No	(null)	1	(null)
CITY	CHAR (20 BYTE)	No	(null)	2	(null)
RANK	NUMBER (38,0)	No	(null)	3	(null)
STADIUM_NAME	CHAR (40 BYTE)	No	(null)	4	(null)

3. Table "STAFF_PHONE_NUMBER":

Describe STAFF_PHONE_NUMBER;

	DATA_TYPE		DATA_DEFAULT		
STAFFID	NUMBER	No	(null)	1	(null)
PHONE_NUMBER	VARCHAR2 (20 BYTE)	No	(null)	2	(null)

4. Table "STAFF":

Describe STAFF;

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT		
ID	NUMBER	No	(null)	1	(null)
TITLE	CHAR (20 BYTE)	No	(null)	2	(null)
FNAME	CHAR (10 BYTE)	No	(null)	3	(null)
M_INITIAL	CHAR (2 BYTE)	No	(null)	4	(null)
LNAME	CHAR (10 BYTE)	No	(null)	5	(null)
ADDRESS	VARCHAR2 (60 BYTE)	No	(null)	6	(null)
SALARY	VARCHAR2 (20 BYTE)	No	(null)	7	(null)
D_NUM	VARCHAR2 (20 BYTE)	No	(null)	8	(null)

5. Table "STADIUM":

Describe STADIUM;

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	
NAME	CHAR (40 BYTE)	No	(null)	1	(null)
LOCATION	VARCHAR2 (20 BYTE)	No	(null)	2	(null)
CONTACT_INFORMATION	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)
MATCH_DAY	DATE	No	(null)	4	(null)
NUMBER_OF_SEATS	NUMBER(38,0)	No	(null)	5	(null)

6. Table "SPONSOR":

Describe SPONSOR;

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT		
NAME	CHAR (20 BYTE)	No	(null)	1	(null)
TYPE	CHAR (20 BYTE)	No	(null)	2	(null)
LOCATION	VARCHAR2 (20 BYTE)	No	(null)	3	(null)
DATE_OF_SPONSORSHIP	DATE	No	(null)	4	(null)
WEBSITE	VARCHAR2 (30 BYTE)	Yes	(null)	5	(null)

7. Table "SELLS":

Describe SELLS;

		♦ NULLABLE	DATA_DEFAULT		♦ COMMENTS
NAME	CHAR (40 BYTE)	No	(null)	1	(null)
TICKET_ID	NUMBER(38,0)	No	(null)	2	(null)
TICKET_TYPE	VARCHAR2 (20 BYTE)	No	(null)	3	(null)

8. Table "PLAYER":

Describe PLAYER;

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT		
KIT_NUMBER	NUMBER (38,0)	No	(null)	1	(null)
FNAME	CHAR (30 BYTE)	No	(null)	2	(null)
MIDDLE_INITIAL	CHAR (2 BYTE)	No	(null)	3	(null)
LNAME	VARCHAR2 (30 BYTE)	No	(null)	4	(null)
NATIONALITY	CHAR (20 BYTE)	No	(null)	5	(null)
BIRTH_DATE	DATE	No	(null)	6	(null)
POSITION	CHAR (3 BYTE)	No	(null)	7	(null)
LOCATION	VARCHAR2 (40 BYTE)	No	(null)	8	(null)
SPONSOR_NAME	CHAR (20 BYTE)	No	(null)	9	(null)
T_NAME	VARCHAR2(20 BYTE)	No	(null)	10	(null)

9. Table "SCHEDULE":

Describe SCHEDULE;

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	DATA_TYPE	NULLABLE	DATA_DEFAULT		
START_TIME	VARCHAR2(10 BYTE)	No	(null)	1	(null)
END_TIME	VARCHAR2 (10 BYTE)	No	(null)	2	(null)
BREAK_HOURS	NUMBER (38,0)	No	(null)	3	(null)
SCHEDULE_ID	NUMBER (38,0)	No	(null)	4	(null)
STAFF_ID	NUMBER	Yes	(null)	5	(null)

10. Table "PLAYER_PHONE_NUMBER":

Describe PLAYER_PHONE_NUMBER;

	DATA_TYPE	NULLABLE	DATA_DEFAULT		
KIT_N	NUMBER(38,0)	No	(null)	1	(null)
PHONE_NUM	VARCHAR2 (20 BYTE)	No	(null)	2	(null)

11. Table "OWNS":

Describe OWNS;

		NULLABLE	DATA_DEFAULT		COMMENTS
KIT_NUMBER	NUMBER (38,0)	No	(null)	1	(null)
LOCKER_ID	NUMBER	No	(null)	2	(null)

12. Table "LOCKER":

Describe LOCKER;

		NULLABLE	DATA_DEFAULT		
ID	NUMBER	No	(null)	1	(null)
CODE	VARCHAR2 (10 BYTE)	No	(null)	2	(null)
STATUS	CHAR (10 BYTE)	No	(null)	3	(null)

13. Table "EQUIPMENT":

Describe EQUIPMENT;

			NULLABLE	DATA_DEFAULT		
QUANTITY	VARCHAR2 (20	BYTE)	No	(null)	1	(null)
EQ_ID	VARCHAR2 (20	BYTE)	No	(null)	2	(null)
TYPE	VARCHAR2 (20	BYTE)	No	(null)	3	(null)
COST	VARCHAR2 (20	BYTE)	No	(null)	4	(null)
BRAND	VARCHAR2 (20	BYTE)	No	(null)	5	(null)
DEP_NUM	VARCHAR2 (20	BYTE)	Yes	(null)	6	(null)

14. Table "DEPARTMENT":

Describe DEPARTMENT;

			NULLABLE	DATA_DEFAULT		
D_NUMBER	VARCHAR2 (20	BYTE)	No	(null)	1	(null)
EXTENSION	VARCHAR2 (20	BYTE)	No	(null)	2	(null)
NAME	VARCHAR2 (20	BYTE)	No	(null)	3	(null)
LOCATION	VARCHAR2 (20	BYTE)	No	(null)	4	(null)

15. Table "CONTRACT":

Describe CONTRACT;

	DATA_TYPE	♦ NULLABLE	DATA_DEFAULT		
TYPE	CHAR(10 BYTE)	No	(null)	1	(null)
SALARY	NUMBER	No	(null)	2	(null)
ROLE	CHAR(10 BYTE)	No	(null)	3	(null)
DATE_OF_SIGNING	DATE	No	(null)	4	(null)
ADDITIONAL_FEES	NUMBER	Yes	(null)	5	(null)
CONTRACT_ID	VARCHAR2 (20 BYTE)	No	(null)	6	(null)
LENGTH	NUMBER	Yes	(null)	7	(null)
KIT_NUM	NUMBER (38,0)	Yes	(null)	8	(null)

16. Table "ADVERTISES":

Describe ADVERTISES;

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT		
ST_NAME	CHAR (40 BYTE)	No	(null)	1	(null)
SPONSOR_NAME	CHAR(20 BYTE)	No	(null)	2	(null)

VII. <u>Dumping data for created tables:</u>

1. Dumping data to OWNS:

INSERT INTO "NAAMANIHADI"."OWNS" (KIT_NUMBER, LOCKER_ID) VALUES ('9', '1000')
INSERT INTO "NAAMANIHADI"."OWNS" (KIT_NUMBER, LOCKER_ID) VALUES ('10', '1100')
INSERT INTO "NAAMANIHADI"."OWNS" (KIT_NUMBER, LOCKER_ID) VALUES ('6', '1200')
INSERT INTO "NAAMANIHADI"."OWNS" (KIT_NUMBER, LOCKER_ID) VALUES ('1', '1300')
INSERT INTO "NAAMANIHADI"."OWNS" (KIT_NUMBER, LOCKER_ID) VALUES ('2', '1400')
INSERT INTO "NAAMANIHADI"."OWNS" (KIT_NUMBER, LOCKER_ID) VALUES ('3', '1500')
INSERT INTO "NAAMANIHADI"."OWNS" (KIT_NUMBER, LOCKER_ID) VALUES ('4', '2200')
INSERT INTO "NAAMANIHADI"."OWNS" (KIT_NUMBER, LOCKER_ID) VALUES ('5', '3300')
INSERT INTO "NAAMANIHADI"."OWNS" (KIT_NUMBER, LOCKER_ID) VALUES ('7', '4400')
INSERT INTO "NAAMANIHADI"."OWNS" (KIT_NUMBER, LOCKER_ID) VALUES ('7', '4400')

2. Dumping data to TICKET:

INSERT INTO "NAAMANIHADI"."TICKET" (TICKET_ID, PRICE, MATCH_DATE, AVAILABILITY) VALUES ('100', '100', TO_DATE('2019-12-18 14:02:58', 'YYYY-MM-DD HH24:MI:SS'), 'Y')

INSERT INTO "NAAMANIHADI"."TICKET" (TICKET_ID, PRICE, MATCH_DATE, AVAILABILITY) VALUES ('200', '50', TO_DATE('2021-12-16 14:03:06', 'YYYY-MM-DD HH24:MI:SS'), 'Y')

INSERT INTO "NAAMANIHADI"."TICKET" (TICKET_ID, PRICE, MATCH_DATE, AVAILABILITY) VALUES ('99', '100', TO_DATE('2019-06-04 14:03:11', 'YYYY-MM-DD HH24:MI:SS'), 'N')

INSERT INTO "NAAMANIHADI"."TICKET" (TICKET_ID, PRICE, MATCH_DATE, AVAILABILITY) VALUES ('33', '200', TO DATE('2020-12-11 14:03:19', 'YYYY-MM-DD HH24:MI:SS'), 'Y')

INSERT INTO "NAAMANIHADI"."TICKET" (TICKET_ID, PRICE, MATCH_DATE, AVAILABILITY) VALUES ('211', '50', TO_DATE('2023-12-22 14:03:25', 'YYYY-MM-DD HH24:MI:SS'), 'Y')

INSERT INTO "NAAMANIHADI"."TICKET" (TICKET_ID, PRICE, MATCH_DATE, AVAILABILITY) VALUES ('554', '50', TO_DATE('2020-01-01 14:03:32', 'YYYY-MM-DD HH24:MI:SS'), 'Y')

INSERT INTO "NAAMANIHADI"."TICKET" (TICKET_ID, PRICE, MATCH_DATE, AVAILABILITY) VALUES ('11', '200', TO DATE('2019-12-29 14:03:49', 'YYYY-MM-DD HH24:MI:SS'), 'N')

INSERT INTO "NAAMANIHADI"."TICKET" (TICKET_ID, PRICE, MATCH_DATE, AVAILABILITY) VALUES ('87', '100', TO DATE('2014-12-18 14:03:54', 'YYYY-MM-DD HH24:MI:SS'), 'N')

INSERT INTO "NAAMANIHADI"."TICKET" (TICKET_ID, PRICE, MATCH_DATE, AVAILABILITY) VALUES ('197', '50', TO_DATE('2016-07-09 14:04:00', 'YYYY-MM-DD HH24:MI:SS'), 'N')

INSERT INTO "NAAMANIHADI"."TICKET" (TICKET_ID, PRICE, MATCH_DATE, AVAILABILITY) VALUES ('44', '200', TO_DATE('2019-08-06 14:04:11', 'YYYY-MM-DD HH24:MI:SS'), 'N')

3. Dumping data to "STAFF":

INSERT INTO "NAAMANIHADI"."STAFF" (ID, TITLE, FNAME, M_INITIAL, LNAME, ADDRESS, SALARY, PHONE_NUMBER) VALUES ('2000', 'Manager', 'Frank', 'J.', 'Lampard', '10 Nevis Avenue, Belfast, BT4 3AE ', '10m \$', '+44 3069 990378')

INSERT INTO "NAAMANIHADI"."STAFF" (ID, TITLE, FNAME, M_INITIAL, LNAME, ADDRESS, SALARY, PHONE_NUMBER) VALUES ('2001', 'Owner', 'Hadi', 'A.', 'Naamani', '46 Old Church Rd, London, E4 8DB', '100m \$', '+44 3069 990111')

INSERT INTO "NAAMANIHADI"."STAFF" (ID, TITLE, FNAME, M_INITIAL, LNAME, ADDRESS, SALARY, PHONE_NUMBER) VALUES ('2009', 'Cleaner', 'Ahmad', 'A.', 'Shehade', '17 Swan Mead, Luton, LU4 0YP', '12k \$', '+44 3069 990222')

INSERT INTO "NAAMANIHADI"."STAFF" (ID, TITLE, FNAME, M_INITIAL, LNAME, ADDRESS, SALARY, PHONE_NUMBER) VALUES ('2483', 'Assistant Manager', 'Ralph', 'A.', 'Bou Jawde', 'The Studio, 7c, Mile End Rd, Norwich, NR4 7QX', '5m \$', '+44 3069 990333')

INSERT INTO "NAAMANIHADI". "STAFF" (ID, TITLE, FNAME, M_INITIAL, LNAME, ADDRESS, SALARY, PHONE_NUMBER) VALUES ('1111', 'Physiotherapist', 'Phil', 'J.', 'Jones', 'Copyground Lane, High Wycombe, HP12 3HE', '2m \$', '+44 3069 990374')

INSERT INTO "NAAMANIHADI". "STAFF" (ID, TITLE, FNAME, M_INITIAL, LNAME, ADDRESS, SALARY, PHONE_NUMBER) VALUES ('3333', 'Coach', 'Moussa', 'A.', 'Harkous', '14 Rhuddlan Way, Kidderminster, DY10 1YH', '5m \$', '+44 3069 990444')

INSERT INTO "NAAMANIHADI". "STAFF" (ID, TITLE, FNAME, M_INITIAL, LNAME, ADDRESS, SALARY, PHONE_NUMBER) VALUES ('2222', 'Nutrionist', 'Chris', 'W.', 'Shalhoub', '13-16, Howlett Way, Thetford, IP24 1HZ', '3m \$', '+44 3069 990555')

INSERT INTO "NAAMANIHADI"."STAFF" (ID, TITLE, FNAME, M_INITIAL, LNAME, ADDRESS, SALARY, PHONE_NUMBER) VALUES ('2019', 'Chef', 'Ali', 'A.', 'Sheib', '21 Armley Grange Drive, Leeds, LS12 3QH', '4m \$', '+44 3069 990999')

INSERT INTO "NAAMANIHADI"."STAFF" (ID, TITLE, FNAME, M_INITIAL, LNAME, ADDRESS, SALARY, PHONE_NUMBER) VALUES ('4432', 'Masseur', 'Mohamad', 'M.', 'Mohamad', '128 Harbour St, Irvine, KA12 8PZ', '1m \$', '+44 3069 990888')

INSERT INTO "NAAMANIHADI"."STAFF" (ID, TITLE, FNAME, M_INITIAL, LNAME, ADDRESS, SALARY, PHONE_NUMBER) VALUES ('4444', 'Goalkeeping Coach', 'Mounir', 'M.', 'Mouloudi', 'James St, York, YO10 3WW', '3m \$', '+44 3069 990777')

4. Dumping data to Sponsor:

INSERT INTO "NAAMANIHADI". "SPONSOR" (NAME, TYPE, LOCATION, DATE_OF_SPONSORSHIP, WEBSITE) VALUES ('Addidas', 'Full sponsorship', 'London', TO_DATE('2019-12-27 12:37:20', 'YYYY-MM-DD HH24:MI:SS'), 'addidas.com')

INSERT INTO "NAAMANIHADI"."SPONSOR" (NAME, TYPE, LOCATION, DATE_OF_SPONSORSHIP, WEBSITE) VALUES ('Nike', 'Full sponsorship', 'Manchester', TO_DATE('2019-12-21 12:37:25', 'YYYY-MM-DD HH24:MI:SS'), 'nike.com')

INSERT INTO "NAAMANIHADI"."SPONSOR" (NAME, TYPE, LOCATION, DATE_OF_SPONSORSHIP, WEBSITE) VALUES ('Chevrolet', 'Team Sponsorship', 'Bristol', TO_DATE('2014-12-12 12:37:29', 'YYYY-MM-DD HH24:MI:SS'), 'chevrolet.com')

INSERT INTO "NAAMANIHADI"."SPONSOR" (NAME, TYPE, LOCATION, DATE_OF_SPONSORSHIP, WEBSITE) VALUES ('Yokahoma', 'Player Sponsorship', 'Liverpool', TO_DATE('2010-12-02 12:37:34', 'YYYY-MM-DD HH24:MI:SS'), 'yokahoma.com')

INSERT INTO "NAAMANIHADI"."SPONSOR" (NAME, TYPE, LOCATION, DATE_OF_SPONSORSHIP, WEBSITE) VALUES ('Etihad Airways', 'Stadium Sponsorship', 'Newcastle', TO_DATE('2019-12-31 12:37:43', 'YYYY-MM-DD HH24:MI:SS'), 'etihad.com')

INSERT INTO "NAAMANIHADI"."SPONSOR" (NAME, TYPE, LOCATION, DATE_OF_SPONSORSHIP, WEBSITE) VALUES ('Emirates Airways', 'Player Sponsorship', 'York', TO_DATE('2019-12-14 12:37:40', 'YYYY-MM-DD HH24:MI:SS'), 'emirate.com')

INSERT INTO "NAAMANIHADI"."SPONSOR" (NAME, TYPE, LOCATION, DATE_OF_SPONSORSHIP, WEBSITE) VALUES ('Qatar Airways', 'Full Sponsorship', 'Leeds', TO_DATE('2015-12-11 12:37:47', 'YYYY-MM-DD HH24:MI:SS'), 'qatar.com')

INSERT INTO "NAAMANIHADI"."SPONSOR" (NAME, TYPE, LOCATION, DATE_OF_SPONSORSHIP, WEBSITE) VALUES ('AXA', 'Team Sponsorship', 'Cambridge', TO_DATE('2016-12-09 12:37:52', 'YYYY-MM-DD HH24:MI:SS'), 'axa.com')

INSERT INTO "NAAMANIHADI". "SPONSOR" (NAME, TYPE, LOCATION, DATE_OF_SPONSORSHIP, WEBSITE) VALUES ('ManBetX', 'Team Sponsorship', 'Oxford', TO_DATE('2018-12-08 12:37:57', 'YYYY-MM-DD HH24:MI:SS'), 'manbetx.com')

INSERT INTO "NAAMANIHADI"."SPONSOR" (NAME, TYPE, LOCATION, DATE_OF_SPONSORSHIP, WEBSITE) VALUES ('AIA', 'Team Sponsorship', 'Norwich', TO_DATE('2017-12-16 12:38:01', 'YYYY-MM-DD HH24:MI:SS'), 'aia.com')

5. Dumping data to SCHEDULE:

INSERT INTO "NAAMANIHADI". "SCHEDULE" (START_TIME, END_TIME, BREAK_HOURS, SCHEDULE_ID) VALUES ('8:00', '13:00', '1', '2000')

INSERT INTO "NAAMANIHADI". "SCHEDULE" (START_TIME, END_TIME, BREAK_HOURS, SCHEDULE_ID) VALUES ('9:00', '14:00', '2', '2001')

INSERT INTO "NAAMANIHADI"."SCHEDULE" (START_TIME, END_TIME, BREAK_HOURS, SCHEDULE_ID) VALUES ('7:00', '13:00', '3', '2002')

INSERT INTO "NAAMANIHADI". "SCHEDULE" (START_TIME, END_TIME, BREAK_HOURS, SCHEDULE_ID) VALUES ('6:00', '14:00', '2', '2003')

INSERT INTO "NAAMANIHADI"."SCHEDULE" (START_TIME, END_TIME, BREAK_HOURS, SCHEDULE_ID) VALUES ('11:00', '17:00', '3', '2004')

INSERT INTO "NAAMANIHADI"."SCHEDULE" (START_TIME, END_TIME, BREAK_HOURS, SCHEDULE_ID) VALUES ('10:00', '16:00', '2', '2005')

INSERT INTO "NAAMANIHADI"."SCHEDULE" (START_TIME, END_TIME, BREAK_HOURS, SCHEDULE_ID) VALUES ('9:00', '15:00', '1', '2006')

INSERT INTO "NAAMANIHADI". "SCHEDULE" (START_TIME, END_TIME, BREAK_HOURS, SCHEDULE_ID) VALUES ('12:00', '14:00', '0', '2007')

INSERT INTO "NAAMANIHADI"."SCHEDULE" (START_TIME, END_TIME, BREAK_HOURS, SCHEDULE_ID) VALUES ('11:00', '17:00', '2', '2008')

INSERT INTO "NAAMANIHADI"."SCHEDULE" (START_TIME, END_TIME, BREAK_HOURS, SCHEDULE_ID) VALUES ('10:00', '16:00', '11, '2009')

6. Dumping data to PLAYER:

INSERT INTO "NAAMANIHADI"."PLAYER1" (KIT_NUMBER, FNAME, MIDDLE_INITIAL, LNAME, PHONE_NUMBER, NATIONALITY, BIRTH_DATE, POSITION, ADDRESS) VALUES ('9', 'Tammy', 'A.', 'Abraham', '+44 556466543', 'England', TO_DATE('1992-12-11 12:54:10', 'YYYY-MM-DD HH24:MI:SS'), 'ST', 'North London')

INSERT INTO "NAAMANIHADI"."PLAYER1" (KIT_NUMBER, FNAME, MIDDLE_INITIAL, LNAME, PHONE_NUMBER, NATIONALITY, BIRTH_DATE, POSITION, ADDRESS) VALUES ('10', 'Harry', 'B.', 'Kane', '+44 54554234', 'England', TO_DATE('1997-12-13 12:54:18', 'YYYY-MM-DD HH24:MI:SS'), 'ST', 'West London')

INSERT INTO "NAAMANIHADI"."PLAYER1" (KIT_NUMBER, FNAME, MIDDLE_INITIAL, LNAME, PHONE_NUMBER, NATIONALITY, BIRTH_DATE, POSITION, ADDRESS) VALUES ('6', 'Alisson', 'C.', 'Becker', '+44 8567438', 'Brazil', TO DATE('2000-12-01 12:54:25', 'YYYY-MM-DD HH24:MI:SS'), 'GK', 'Liverpool')

INSERT INTO "NAAMANIHADI"."PLAYER1" (KIT_NUMBER, FNAME, MIDDLE_INITIAL, LNAME, PHONE_NUMBER, NATIONALITY, BIRTH_DATE, POSITION, ADDRESS) VALUES ('1', 'Kepa', 'W.', 'Arizabalaga', '+44 6546332', 'Spain', TO_DATE('1988-12-03 12:54:33', 'YYYY-MM-DD HH24:MI:SS'), 'GK', 'Chelsea')

INSERT INTO "NAAMANIHADI"."PLAYER1" (KIT_NUMBER, FNAME, MIDDLE_INITIAL, LNAME, PHONE_NUMBER, NATIONALITY, BIRTH_DATE, POSITION, ADDRESS) VALUES ('2', 'Antoine', 'E.', 'Rudiger', '+44 5145234', 'Germany', TO_DATE('2002-12-27 12:54:43', 'YYYY-MM-DD HH24:MI:SS'), 'CB', 'Chelsea')

INSERT INTO "NAAMANIHADI"."PLAYER1" (KIT_NUMBER, FNAME, MIDDLE_INITIAL, LNAME, PHONE_NUMBER, NATIONALITY, BIRTH_DATE, POSITION, ADDRESS) VALUES ('3', 'David', 'R.', 'Luiz', '+44 1111111', 'Brazil', TO_DATE('1995-12-23 12:54:51', 'YYYY-MM-DD HH24:MI:SS'), 'CB', 'Arsenal')

INSERT INTO "NAAMANIHADI"."PLAYER1" (KIT_NUMBER, FNAME, MIDDLE_INITIAL, LNAME, PHONE_NUMBER, NATIONALITY, BIRTH_DATE, POSITION, ADDRESS) VALUES ('4', 'Jordan', 'T.', 'Henderson', '+44 4444444', 'England', TO_DATE('1996-12-27 12:55:03', 'YYYY-MM-DD HH24:MI:SS'), 'CM', 'Liverpool')

INSERT INTO "NAAMANIHADI"."PLAYER1" (KIT_NUMBER, FNAME, MIDDLE_INITIAL, LNAME, PHONE_NUMBER, NATIONALITY, BIRTH_DATE, POSITION, ADDRESS) VALUES ('5', 'Jorginho', 'A.', 'Ferella', '+44 12344554', 'Italy', TO_DATE('1993-12-30 12:55:12', 'YYYY-MM-DD HH24:MI:SS'), 'CM', 'Manchester')

INSERT INTO "NAAMANIHADI"."PLAYER1" (KIT_NUMBER, FNAME, MIDDLE_INITIAL, LNAME, PHONE_NUMBER, NATIONALITY, BIRTH_DATE, POSITION, ADDRESS) VALUES ('7', 'Ngolo', 'H.', 'Kante', '+44 3333333', 'France', TO_DATE('1990-12-31 12:55:21', 'YYYY-MM-DD HH24:MI:SS'), 'CDM', 'Norwich')

INSERT INTO "NAAMANIHADI"."PLAYER1" (KIT_NUMBER, FNAME, MIDDLE_INITIAL, LNAME, PHONE_NUMBER, NATIONALITY, BIRTH_DATE, POSITION, ADDRESS) VALUES ('8', 'Danny', 'H.', 'Williams', '+44 22222222', 'England', TO_DATE('2000-06-15 12:55:32', 'YYYY-MM-DD HH24:MI:SS'), 'LW', 'Bristol')

7. Dumping data to LOCKER:

INSERT INTO "NAAMANIHADI"."LOCKER" (ID, CODE, STATUS) VALUES ('1000', '123-321', 'Occupied')
INSERT INTO "NAAMANIHADI"."LOCKER" (ID, CODE, STATUS) VALUES ('1100', '456-654', 'Available')
INSERT INTO "NAAMANIHADI"."LOCKER" (ID, CODE, STATUS) VALUES ('1200', '789-987', 'Occupied')
INSERT INTO "NAAMANIHADI"."LOCKER" (ID, CODE, STATUS) VALUES ('1300', '654-321', 'Available')

INSERT INTO "NAAMANIHADI"."LOCKER" (ID, CODE, STATUS) VALUES ('1400', '456-123', 'Available')
INSERT INTO "NAAMANIHADI"."LOCKER" (ID, CODE, STATUS) VALUES ('1500', '123-456', 'Occupied')
INSERT INTO "NAAMANIHADI"."LOCKER" (ID, CODE, STATUS) VALUES ('2200', '456-789', 'Available')
INSERT INTO "NAAMANIHADI"."LOCKER" (ID, CODE, STATUS) VALUES ('3300', '654-987', 'Available')
INSERT INTO "NAAMANIHADI"."LOCKER" (ID, CODE, STATUS) VALUES ('4400', '000-111', 'Available')
INSERT INTO "NAAMANIHADI"."LOCKER" (ID, CODE, STATUS) VALUES ('1900', '122-211', 'Occupied')

8. Dumping data to Equipment:

INSERT INTO "NAAMANIHADI"."EQUIPMENT" (QUANTITY, EQ_ID, TYPE, COST, BRAND) VALUES ('100', '123-123', 'Shoes', '100\$', 'Nike')

INSERT INTO "NAAMANIHADI"."EQUIPMENT" (QUANTITY, EQ_ID, TYPE, COST, BRAND) VALUES ('50', '321-321', 'Ball', '20\$', 'Addidas')

INSERT INTO "NAAMANIHADI". "EQUIPMENT" (QUANTITY, EQ_ID, TYPE, COST, BRAND) VALUES ('10', '123-456', 'Goalkeeping gloves', '70\$', 'Puma')

INSERT INTO "NAAMANIHADI"."EQUIPMENT" (QUANTITY, EQ_ID, TYPE, COST, BRAND) VALUES ('100', '321-654', 'Shirts', '30\$', 'Nike')

INSERT INTO "NAAMANIHADI"."EQUIPMENT" (QUANTITY, EQ_ID, TYPE, COST, BRAND) VALUES ('100', '123-789', 'Cones', '10\$', 'Nike')

INSERT INTO "NAAMANIHADI". "EQUIPMENT" (QUANTITY, EQ_ID, TYPE, COST, BRAND) VALUES ('10', '111-000', 'Dummies', '90\$', 'Nike')

INSERT INTO "NAAMANIHADI"."EQUIPMENT" (QUANTITY, EQ_ID, TYPE, COST, BRAND) VALUES ('200', '222-111', 'Desk', '110\$', 'Steelcase')

INSERT INTO "NAAMANIHADI"."EQUIPMENT" (QUANTITY, EQ_ID, TYPE, COST, BRAND) VALUES ('300', '333-999', 'Chairs', '70\$', 'Steelcase')

INSERT INTO "NAAMANIHADI"."EQUIPMENT" (QUANTITY, EQ_ID, TYPE, COST, BRAND) VALUES ('40', '444-666', 'Mop', '15\$', 'Vileda')

INSERT INTO "NAAMANIHADI"."EQUIPMENT" (QUANTITY, EQ_ID, TYPE, COST, BRAND) VALUES ('20', '555-555', 'Cooler', '95\$', 'Nestle')

9. Dumping data to TEAM:

UPDATE "NAAMANIHADI"."TEAM" SET NAME = 'Chelsea Team A', CITY = 'Chelsea ', RANK = '3' WHERE

UPDATE "NAAMANIHADI"."TEAM" SET NAME = 'Chelsea Team B', CITY = 'Chelsea ', RANK = '10'

UPDATE "NAAMANIHADI"."TEAM" SET NAME = 'Chelsea Seniors A', CITY = 'Chelsea ', RANK = '2'

UPDATE "NAAMANIHADI"."TEAM" SET NAME = 'Chelsea Juniors A', CITY = 'Fulham ', RANK = '7'

UPDATE "NAAMANIHADI"."TEAM" SET NAME = 'Chelsea Seniors B', CITY = 'Chelsea ', RANK = '6'

UPDATE "NAAMANIHADI"."TEAM" SET NAME = 'Chelsea Juniors B', CITY = 'Fulham ', RANK = '9'

UPDATE "NAAMANIHADI"."TEAM" SET NAME = 'Chelsea Youth A', CITY = 'Manchester', RANK = '20'

UPDATE "NAAMANIHADI"."TEAM" SET NAME = 'Chelsea Youth B', CITY = 'Manchester', RANK = '33'

10. Dumping data to CONTRACT:

INSERT INTO "NAAMANIHADI"."CONTRACT" (TYPE, SALARY, ROLE, DATE_OF_SIGNING, ADDITIONAL_FEES, CONTRACT_ID) VALUES ('Transfer', '100000', 'Important', TO_DATE('2015-12-10 17:36:14', 'YYYY-MM-DD HH24:MI:SS'), '50000', '201')

INSERT INTO "NAAMANIHADI"."CONTRACT" (TYPE, SALARY, ROLE, DATE_OF_SIGNING, ADDITIONAL_FEES, CONTRACT_ID) VALUES ('Loan', '50000', 'Substitute', TO_DATE('2019-12-23 17:36:19', 'YYYY-MM-DD HH24:MI:SS'), '15000', '202')

INSERT INTO "NAAMANIHADI"."CONTRACT" (TYPE, SALARY, ROLE, DATE_OF_SIGNING, ADDITIONAL_FEES, CONTRACT_ID) VALUES ('Loan', '25000', 'Reserve', TO_DATE('2017-12-07 17:36:23', 'YYYY-MM-DD HH24:MI:SS'), '10000', '203')

INSERT INTO "NAAMANIHADI"."CONTRACT" (TYPE, SALARY, ROLE, DATE_OF_SIGNING, ADDITIONAL_FEES, CONTRACT_ID) VALUES ('Transfer', '150000', 'Important', TO_DATE('2018-12-15 17:36:30', 'YYYY-MM-DD HH24:MI:SS'), '55000', '204')

INSERT INTO "NAAMANIHADI"."CONTRACT" (TYPE, SALARY, ROLE, DATE_OF_SIGNING, ADDITIONAL_FEES, CONTRACT_ID) VALUES ('Renew', '200000', 'Important', TO_DATE('2012-12-06 17:36:34', 'YYYY-MM-DD HH24:MI:SS'), '0', '205')

INSERT INTO "NAAMANIHADI"."CONTRACT" (TYPE, SALARY, ROLE, DATE_OF_SIGNING, ADDITIONAL_FEES, CONTRACT_ID) VALUES ('Renew', '210000', 'Important', TO_DATE('2014-12-05 17:36:39', 'YYYY-MM-DD HH24:MI:SS'), '0', '206')

INSERT INTO "NAAMANIHADI"."CONTRACT" (TYPE, SALARY, ROLE, DATE_OF_SIGNING, ADDITIONAL_FEES, CONTRACT_ID) VALUES ('Loan', '30000', 'Reserve', TO_DATE('2018-05-11 17:36:45', 'YYYY-MM-DD HH24:MI:SS'), '10000', '207')

INSERT INTO "NAAMANIHADI"."CONTRACT" (TYPE, SALARY, ROLE, DATE_OF_SIGNING, ADDITIONAL_FEES, CONTRACT_ID) VALUES ('Transfer', '120000', 'Important', TO_DATE('2019-12-31 17:36:51', 'YYYY-MM-DD HH24:MI:SS'), '60000', '208')

INSERT INTO "NAAMANIHADI"."CONTRACT" (TYPE, SALARY, ROLE, DATE_OF_SIGNING, ADDITIONAL_FEES, CONTRACT_ID) VALUES ('Loan', '40000', 'Substitute', TO_DATE('2019-12-22 17:36:55', 'YYYY-MM-DD HH24:MI:SS'), '5000', '209')

INSERT INTO "NAAMANIHADI"."CONTRACT" (TYPE, SALARY, ROLE, DATE_OF_SIGNING, ADDITIONAL_FEES, CONTRACT_ID) VALUES ('Renew', '200000', 'Important', TO_DATE('2017-08-04 17:37:00', 'YYYY-MM-DD HH24:MI:SS'), '0', '300')

11. Dumping data to DEPARTMENT:

INSERT INTO "NAAMANIHADI"."DEPARTMENT" (D_NUMBER, EXTENSION, NAME, LOCATION) VALUES ('123', '1234', 'Medical', 'Chelsea')

INSERT INTO "NAAMANIHADI"."DEPARTMENT" (D_NUMBER, EXTENSION, NAME, LOCATION) VALUES ('456', '4567', 'Finance', 'Fulham')

INSERT INTO "NAAMANIHADI"."DEPARTMENT" (D_NUMBER, EXTENSION, NAME, LOCATION) VALUES ('789', '7890', 'Management', 'Manchester')

INSERT INTO "NAAMANIHADI"."DEPARTMENT" (D_NUMBER, EXTENSION, NAME, LOCATION) VALUES ('999', '1567', 'Fitness', 'Chelsea')

INSERT INTO "NAAMANIHADI"."DEPARTMENT" (D_NUMBER, EXTENSION, NAME, LOCATION) VALUES ('111', '2567', 'Marketing', 'Manchester')

INSERT INTO "NAAMANIHADI"."DEPARTMENT" (D_NUMBER, EXTENSION, NAME, LOCATION) VALUES ('222', '7654', 'Scouting', 'Manchester')

INSERT INTO "NAAMANIHADI"."DEPARTMENT" (D_NUMBER, EXTENSION, NAME, LOCATION) VALUES ('333', '9876', 'Sponsor', 'Fulham')

INSERT INTO "NAAMANIHADI"."DEPARTMENT" (D_NUMBER, EXTENSION, NAME, LOCATION) VALUES ('444', '4321', 'Recruitment', 'Chelsea')

INSERT INTO "NAAMANIHADI"."DEPARTMENT" (D_NUMBER, EXTENSION, NAME, LOCATION) VALUES ('555', '6543', 'External Relations', 'Fulham')

INSERT INTO "NAAMANIHADI"."DEPARTMENT" (D_NUMBER, EXTENSION, NAME, LOCATION) VALUES ('666', '9999', 'Food', 'Chelsea')

12. Dumping data to SELLS:

INSERT INTO "NAAMANIHADI". "SELLS" (NAME, TICKET_ID, TICKET_TYPE) VALUES ('Stamford Bridge', '100', 'VIP')

INSERT INTO "NAAMANIHADI". "SELLS" (NAME, TICKET_ID, TICKET_TYPE) VALUES ('Old Traford', '200', 'Regular')

INSERT INTO "NAAMANIHADI"."SELLS" (NAME, TICKET_ID, TICKET_TYPE) VALUES ('Stamford Bridge', '99'. 'VIP')

INSERT INTO "NAAMANIHADI". "SELLS" (NAME, TICKET_ID, TICKET_TYPE) VALUES ('Wolves', '33', 'VIP')

INSERT INTO "NAAMANIHADI". "SELLS" (NAME, TICKET_ID, TICKET_TYPE) VALUES ('King Power', '211', 'Regular')

INSERT INTO "NAAMANIHADI". "SELLS" (NAME, TICKET_ID, TICKET_TYPE) VALUES ('King Power', '11', 'VIP')

INSERT INTO "NAAMANIHADI". "SELLS" (NAME, TICKET_ID, TICKET_TYPE) VALUES ('Tottenham', '554', 'Regular')

INSERT INTO "NAAMANIHADI"."SELLS" (NAME, TICKET_ID, TICKET_TYPE) VALUES ('Emirates', '87', 'VIP')
INSERT INTO "NAAMANIHADI"."SELLS" (NAME, TICKET_ID, TICKET_TYPE) VALUES ('Anfield', '197', 'VIP')
INSERT INTO "NAAMANIHADI"."SELLS" (NAME, TICKET_ID, TICKET_TYPE) VALUES ('Anfield', '44', 'Regular')

13. Dumping data to Advertises:

INSERT INTO "NAAMANIHADI"."ADVERTISES" (ST_NAME, SPONSOR_NAME) VALUES ('Stamford Bridge', 'Yokahoma')

INSERT INTO "NAAMANIHADI"."ADVERTISES" (ST_NAME, SPONSOR_NAME) VALUES ('Stamford Bridge', 'Nike')

INSERT INTO "NAAMANIHADI"."ADVERTISES" (ST_NAME, SPONSOR_NAME) VALUES ('Old Traford', 'Chevrolet')

INSERT INTO "NAAMANIHADI". "ADVERTISES" (ST NAME, SPONSOR NAME) VALUES ('Anfield', 'AXA')

INSERT INTO "NAAMANIHADI"."ADVERTISES" (ST_NAME, SPONSOR_NAME) VALUES ('Tottenham', 'AIA')

INSERT INTO "NAAMANIHADI"."ADVERTISES" (ST_NAME, SPONSOR_NAME) VALUES ('Wolves', 'Addidas')

INSERT INTO "NAAMANIHADI"."ADVERTISES" (ST_NAME, SPONSOR_NAME) VALUES ('King Power', 'ManBetX')

INSERT INTO "NAAMANIHADI"."ADVERTISES" (ST_NAME, SPONSOR_NAME) VALUES ('Anfield', 'Nike')

INSERT INTO "NAAMANIHADI"."ADVERTISES" (ST_NAME, SPONSOR_NAME) VALUES ('Etihad', 'Etihad Airways')

INSERT INTO "NAAMANIHADI"."ADVERTISES" (ST_NAME, SPONSOR_NAME) VALUES ('Emirates', 'Addidas')

14. Dumping data to PLAYER_PHONE_NUMBER:

INSERT INTO "NAAMANIHADI"."PLAYER_PHONE_NUMBER" (KIT_N, PHONE_NUM) VALUES ('10', '+44 111111')

INSERT INTO "NAAMANIHADI"."PLAYER_PHONE_NUMBER" (KIT_N, PHONE_NUM) VALUES ('2', '+44 222222')

INSERT INTO "NAAMANIHADI"."PLAYER_PHONE_NUMBER" (KIT_N, PHONE_NUM) VALUES ('4', '+44 333333')

INSERT INTO "NAAMANIHADI"."PLAYER_PHONE_NUMBER" (KIT_N, PHONE_NUM) VALUES ('6', '+44 444444')

INSERT INTO "NAAMANIHADI"."PLAYER_PHONE_NUMBER" (KIT_N, PHONE_NUM) VALUES ('8', '+44 555555')

INSERT INTO "NAAMANIHADI"."PLAYER_PHONE_NUMBER" (KIT_N, PHONE_NUM) VALUES ('9', '+44 666666')

INSERT INTO "NAAMANIHADI"."PLAYER_PHONE_NUMBER" (KIT_N, PHONE_NUM) VALUES ('7', '+44 777777')

INSERT INTO "NAAMANIHADI"."PLAYER_PHONE_NUMBER" (KIT_N, PHONE_NUM) VALUES ('5', '+44 888888')

INSERT INTO "NAAMANIHADI"."PLAYER_PHONE_NUMBER" (KIT_N, PHONE_NUM) VALUES ('3', '+44 999999')

INSERT INTO "NAAMANIHADI"."PLAYER_PHONE_NUMBER" (KIT_N, PHONE_NUM) VALUES ('1', '+44 000000')

15. Dumping data into STAFF_PHONE_NUMBER:

INSERT INTO "NAAMANIHADI"."STAFF_PHONE_NUMBER" (STAFFID, PHONE_NUMBER) VALUES ('2001', '+44 111222')

INSERT INTO "NAAMANIHADI"."STAFF_PHONE_NUMBER" (STAFFID, PHONE_NUMBER) VALUES ('2003', '+44 222333')

INSERT INTO "NAAMANIHADI"."STAFF_PHONE_NUMBER" (STAFFID, PHONE_NUMBER) VALUES ('2005', '+44 333444')

INSERT INTO "NAAMANIHADI"."STAFF_PHONE_NUMBER" (STAFFID, PHONE_NUMBER) VALUES ('2007', '+44 444555')

INSERT INTO "NAAMANIHADI"."STAFF_PHONE_NUMBER" (STAFFID, PHONE_NUMBER) VALUES ('2009', '+44 555666')

INSERT INTO "NAAMANIHADI"."STAFF_PHONE_NUMBER" (STAFFID, PHONE_NUMBER) VALUES ('2008', '+44 666777')

INSERT INTO "NAAMANIHADI"."STAFF_PHONE_NUMBER" (STAFFID, PHONE_NUMBER) VALUES ('2006', '+44 777888')

INSERT INTO "NAAMANIHADI"."STAFF_PHONE_NUMBER" (STAFFID, PHONE_NUMBER) VALUES ('2000', '+44 888999')

INSERT INTO "NAAMANIHADI"."STAFF_PHONE_NUMBER" (STAFFID, PHONE_NUMBER) VALUES ('2004', '+44 999000')

INSERT INTO "NAAMANIHADI"."STAFF_PHONE_NUMBER" (STAFFID, PHONE_NUMBER) VALUES ('2002', '+44 000111')

16. Dumping data to STADIUM:

INSERT INTO "NAAMANIHADI"."STADIUM1" (NAME, COLUMN2, COLUMN3, COLUMN4, COLUMN5) VALUES ('Stamford Bridge ', 'Chelsea', 'chelsea@info.com', TO_DATE('2019-12-09 00:00:00', 'YYYY-MM-DD HH24:MI:SS'), '555555')

INSERT INTO "NAAMANIHADI"."STADIUM1" (NAME, COLUMN2, COLUMN3, COLUMN4, COLUMN5) VALUES ('Tottenham', 'Spurs', 'spurs@info.com', TO_DATE('2019-12-25 00:00:00', 'YYYY-MM-DD HH24:MI:SS'), '4433333')

INSERT INTO "NAAMANIHADI"."STADIUM1" (NAME, COLUMN2, COLUMN3, COLUMN4, COLUMN5)

VALUES ('Old Traford ', 'Manchester', 'manutd@info.com', TO_DATE('2019-12-14

00:00:00', 'YYYY-MM-DD HH24:MI:SS'), '1111111')

INSERT INTO "NAAMANIHADI"."STADIUM1" (NAME, COLUMN2, COLUMN3, COLUMN4, COLUMN5) VALUES ('King Power ', 'Leicester', 'leicester@info.com', TO_DATE('2019-12-26 00:00:00', 'YYYY-MM-DD HH24:MI:SS'), '32233322')

INSERT INTO "NAAMANIHADI"."STADIUM1" (NAME, COLUMN2, COLUMN3, COLUMN4, COLUMN5) VALUES ('Etihad', 'Manchester', 'mancity@info.com', TO_DATE('2019-12-30 00:00:00', 'YYYY-MM-DD HH24:MI:SS'), '1143434')

INSERT INTO "NAAMANIHADI"."STADIUM1" (NAME, COLUMN2, COLUMN3, COLUMN4, COLUMN5) VALUES ('Emirates ', 'North London', 'arsenal@info.com', TO_DATE('2020-05-14 00:00:00', 'YYYY-MM-DD HH24:MI:SS'), '225454')

INSERT INTO "NAAMANIHADI"."STADIUM1" (NAME, COLUMN2, COLUMN3, COLUMN4, COLUMN5) VALUES ('Wolves ', 'Wolverhampton', 'wolves@info.com', TO_DATE('2020-12-10 00:00:00', 'YYYY-MM-DD HH24:MI:SS'), '3344233')

INSERT INTO "NAAMANIHADI"."STADIUM1" (NAME, COLUMN2, COLUMN3, COLUMN4, COLUMN5) VALUES ('Bramall Lane ', 'Sheffield', 'sheffutd@info.com', TO_DATE('2019-12-28 00:00:00', 'YYYY-MM-DD HH24:MI:SS'), '6663332')

INSERT INTO "NAAMANIHADI"."STADIUM1" (NAME, COLUMN2, COLUMN3, COLUMN4, COLUMN5)

VALUES ('Anfield ', 'Liverpool', 'liverpool@info.com', TO_DATE('2019-12-31 00:00:00', 'YYYY-MM-DD HH24:MI:SS'), '6664443')

INSERT INTO "NAAMANIHADI"."STADIUM1" (NAME, COLUMN2, COLUMN3, COLUMN4, COLUMN5) VALUES ('Castle ', 'Newcastle', 'newcastle@info.com', TO_DATE('2020-01-01 00:00:00', 'YYYY-MM-DD HH24:MI:SS'), '3333121')

VIII. <u>Final Tables:</u>

 Table "TICKET": Select * from TICKET;

	∜ TICKET_ID			
1	100	100	18-DEC-19	Y
2	200	50	16-DEC-21	Y
3	99	100	04-JUN-19	N
4	33	200	11-DEC-20	Y
5	211	50	22-DEC-23	Y
6	554	50	01-JAN-20	Y
7	11	200	29-DEC-19	N
8	87	100	18-DEC-14	N
9	197	50	09-JUL-16	N
10	44	200	06-AUG-19	N

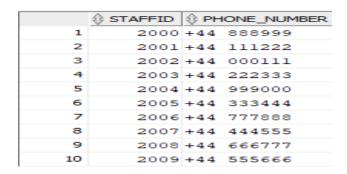
2. Table "TEAM":

Select * from TEAM;

	NAME	∯ CITY	₿ RANK	
1	Chelsea A Team	Manchester	3	Stamford Bridge
2	Chelsea B Team	Manchester	5	King Power
3	Chelsea Academy A	Wolverhampton	6	Old Traford
4	Chelsea Academy B	Tottenham	7	Etihad
5	Chelsea Seniors A	Sheffield	8	Anfield
6	Chelsea Seniors E	Islington	10	Anfield
7	Chelsea Juniors A	Newcastle	9	Wolves
8	Chelsea Juniors E	Chelsea	4	Emirates
9	Chelsea Youth A	Leicester	2	Tottenham
10	Chelsea Youth B	Liverpool	1	Stamford Bridge

3. Table "STAFF_PHONE_NUMBER":

Select * from STAFF_PHONE_NUMBER;



4. Table "STAFF":

Select * from STAFF;

	∯ID	∯ TITLE	∯ FNAME	∯ M_INITIAL	\$ LNAME			∯ D_NUM
1	2000	Manager	Frank	J.	Lampard	10 Nevis Avenue, Belfast, BT4 3AE	10m \$	123
2	2001	Owner	Hadi	Α.	Naamani	46 Old Church Rd, London, E4 8DB	100m \$	111
3	2002	Cleaner	Ahmad	A.	Shehade	17 Swan Mead, Luton, LU4 0YP	12k \$	222
4	2003	Assistant Manager	Ralph	Α.	Bou Jawde	The Studio, 7c, Mile End Rd, Norwich, NR4 7QX	5m \$	333
5	2004	Physiotherapist	Phil	J.	Jones	Copyground Lane, High Wycombe, HP12 3HE	2m \$	444
6	2005	Coach	Moussa	A.	Harkous	14 Rhuddlan Way, Kidderminster, DY10 1YH	5m \$	555
7	2006	Nutrionist	Chris	W.	Shalhoub	13-16, Howlett Way, Thetford, IP24 1HZ	3m \$	666
8	2007	Chef	Ali	A.	Sheib	21 Armley Grange Drive, Leeds, LS12 3QH	4m \$	456
9	2008	Masseur	Mohamad	М.	Mohamad	128 Harbour St, Irvine, KA12 8PZ	lm \$	789
10	2009	Goalkeeping Coach	Mounir	М.	Mouloudi	James St, York, YO10 3WW	3m \$	999

5. Table "STADIUM":

Select * from STADIUM;

NAME			♦ CONTACT_INFORMATION		NUMBER_OF_SEATS
1 Stamford	i Bridge	Chelsea	chelsea@info.com	09-DEC-19	555555
2 Tottenha	am	Spurs	spurs@info.com	25-DEC-19	4433333
3 Old Trai	ford	Manchester	manutd@info.com	14-DEC-19	1111111
4 King Pov	wer	Leicester	leicester@info.com	26-DEC-19	32233322
5 Etihad		Manchester	mancity@info.com	30-DEC-19	1143434
6 Emirates	3	North London	arsenal@info.com	14-MAY-20	225454
7 Wolves		Wolverhampton	wolves@info.com	10-DEC-20	3344233
8 Bramall	Lane	Sheffield	sheffutd@info.com	28-DEC-19	6663332
9 Anfield		Liverpool	liverpool@info.com	31-DEC-19	6664443
10 Castle		Newcastle	newcastle@info.com	01-JAN-20	3333121

6. Table "SPONSOR":

Select * from SPONSOR;

	♦ NAME	↑ TYPE		♦ DATE_OF_SPONSORSHIP	
1	Addidas	Full sponsorship	London	27-DEC-19	addidas.com
2	Nike	Full sponsorship	Manchester	21-DEC-19	nike.com
3	Chevrolet	Team Sponsorship	Bristol	12-DEC-14	chevrolet.com
4	Yokahoma	Player Sponsorship	Liverpool	02-DEC-10	yokahoma.com
5	Etihad Airways	Stadium Sponsorship	Newcastle	31-DEC-19	etihad.com
6	Emirates Airways	Player Sponsorship	York	14-DEC-19	emirate.com
7	Qatar Airways	Full Sponsorship	Leeds	11-DEC-15	qatar.com
8	AXA	Team Sponsorship	Cambridge	09-DEC-16	axa.com
9	ManBetX	Team Sponsorship	Oxford	08-DEC-18	manbetx.com
10	AIA	Team Sponsorship	Norwich	16-DEC-17	aia.com

7. Table "SELLS":

Select * from SELLS;

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	∯ NAME		
1	Stamford Bridge	100	VIP
2	Old Traford	200	Regular
3	Stamford Bridge	99	VIP
4	Wolves	33	VIP
5	King Power	211	Regular
6	King Power	11	VIP
7	Tottenham	554	Regular
8	Emirates	87	VIP
9	Anfield	197	VIP
10	Anfield	44	Regular

8. Table "SCHEDULE":

Select * from SCHEDULE;

	START_TIME	\$ END_TIME		\$ SCHEDULE_ID	∜ STAFF_ID
1	8:00	13:00	1	2000	2001
2	9:00	14:00	2	2001	2009
3	7:00	13:00	3	2002	2007
4	6:00	14:00	2	2003	2005
5	11:00	17:00	3	2004	2003
6	10:00	16:00	2	2005	2008
7	9:00	15:00	1	2006	2006
8	12:00	14:00	0	2007	2004
9	11:00	17:00	2	2008	2002
10	10:00	16:00	1	2009	2000

9. Table "PLAYER":

Select * from PLAYER;

∯K	IT_NUMBER	∯ FNAME	∯MIDDLE_INITIAL	∯ LNAME	NATIONALITY	∯BIRTH_DATE	POSITION POSITION	\$LOCATION	\$PONSOR_NAME	∯T_NAME
1	9	Tammy	A.	Abraham	England	11-DEC-92	ST	North London	Addidas	Chelsea A Team
2	101	Harry	В.	Kane	England	13-DEC-97	ST	West London	Yokahoma	Chelsea Academy D
3	62	Alisson	С.	Becker	Brazil	01-DEC-00	GK	Liverpool	AXA	Chelsea B Team
4	11	Кера	W.	Arizabalaga	Spain	03-DEC-88	GK	Chelsea	AIA	Chelsea Academy 1
5	2.	Antoine	E.	Rudiger	Germany	27-DEC-02	CB	Chelsea	ManBetX	Chelsea Youth A
6	31	David	R.	Luiz	Brazil	23-DEC-95	CB	Arsenal	Emirates Airways	Chelsea A Team
7	4	Jordan	ī.	Henderson	England	27-DEC-96	CM	Liverpool	Chevrolet	Chelsea B Team
8	5	Jorginho	A.	Ferella	Italy	30-DEC-93	CM	Manchester	Nike	Chelsea Seniors D
9	71	Ngolo	H.	Kante	France	31-DEC-90	CDM	Norwich	Nike	Chelsea Seniors 1
10	8	Danny	H.	Williams	England	15-JUN-00	LW	Bristol	Addidas	Chelsea Juniors I

10. Table "PLAYER_PHONE_NUMBER":

Select * from PLAYER_PHONE_NUMBER;

	∯ KIT_N	
1	1	+44 000000
2	2	+44 222222
3	3	+44 999999
4	4	+44 333333
5	5	+44 888888
6	6	+44 44444
7	7	+44 777777
8	8	+44 555555
9	9	+44 666666
10	10	+44 111111

11.Table "OWNS":

Select * from OWNS;

		\$ LOCKER_ID
1	1	1300
2	2	1400
3	3	1500
4	4	2200
5	5	3300
6	6	1200
7	7	4400
8	8	1900
9	9	1000
10	10	1100

12. Table "LOCKER":

Select * from LOCKER;

	∯ ID	CODE	
1	1000	123-321	Occupied
2	1100	456-654	Available
3	1200	789-987	Occupied
4	1300	654-321	Available
5	1400	456-123	Available
6	1500	123-456	Occupied
7	2200	456-789	Available
8	3300	654-987	Available
9	4400	000-111	Available
10	1900	122-211	Occupied

13. Table "EQUIPMENT":

Select * from EQUIPMENT;

		∯ EQ_ID	∯ TYPE			
1	100	123-123	Shoes	100\$	Nike	999
2	50	321-321	Ball	20\$	Addidas	999
3	10	123-456	Goalkeeping gloves	70\$	Puma	999
4	100	321-654	Shirts	30\$	Nike	444
5	100	123-789	Food	10\$	Kellogs	666
6	10	111-000	Medicine	90\$	Panadol	123
7	200	222-111	Desk	110\$	Steelcase	789
8	300	333-999	Chairs	70\$	Steelcase	789
9	40	444-666	Suplements	15\$	MuscleTech	444
10	20	555-555	Dummies	95\$	Nestle	999

14. Table "DEPARTMENT":

Select * from DEPARTMENT;

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			NAME	
1	123	1234	Medical	Chelsea
2	456	4567	Finance	Fulham
3	789	7890	Management	Manchester
4	999	1567	Fitness	Chelsea
5	111	2567	Marketing	Manchester
6	222	7654	Scouting	Manchester
7	333	9876	Sponsor	Fulham
8	444	4321	Recruitment	Chelsea
9	555	6543	External Relations	Fulham
10	666	9999	Food	Chelsea

15. Table "CONTRACT":

Select * from CONTRACT;

	∜ TYPE		∜ ROLE	♦ DATE_OF_SIGNING				∜ KIT_NUM
1	Transfer	100000	Important	10-DEC-15	50000	201	3	9
2	Loan	50000	Substitute	23-DEC-19	15000	202	1	10
3	Loan	25000	Reserve	07-DEC-17	10000	203	2	8
4	Transfer	150000	Important	15-DEC-18	55000	204	4	7
5	Renew	200000	Important	06-DEC-12	0	205	5	5
6	Renew	210000	Important	05-DEC-14	0	206	3	4
7	Loan	30000	Reserve	11-MAY-18	10000	207	1	3
8	Transfer	120000	Important	31-DEC-19	60000	208	2	2
9	Loan	40000	Substitute	22-DEC-19	5000	209	3	1
10	Renew	200000	Important	04-AUG-17	0	300	5	6

16.Table "ADVERTISES":

Select * from ADVERTISES;

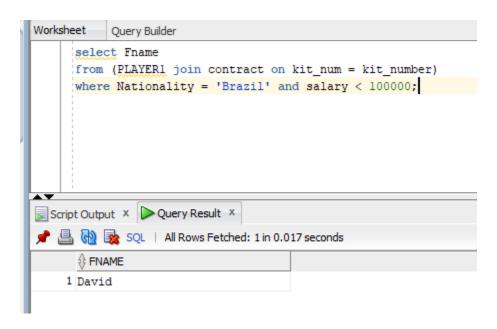
	∯ ST_NAME	
1	Anfield	AXA
2	Anfield	Nike
3	Emirates	Addidas
4	Etihad	Etihad Airways
5	King Power	ManBetX
6	Old Traford	Chevrolet
7	Stamford Bridge	Nike
8	Stamford Bridge	Yokahoma
9	Tottenham	AIA
10	Wolves	Addidas

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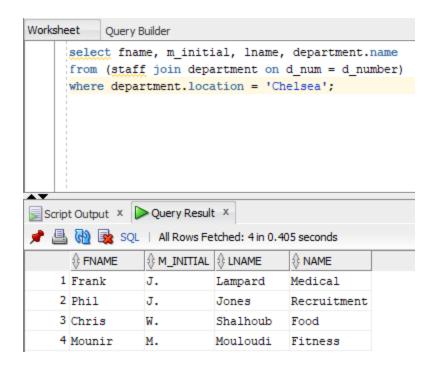
IX. Queries:

Q1. Retrieve the First Name of players who are Brazilians and have a salary less than 100,000.

Output:

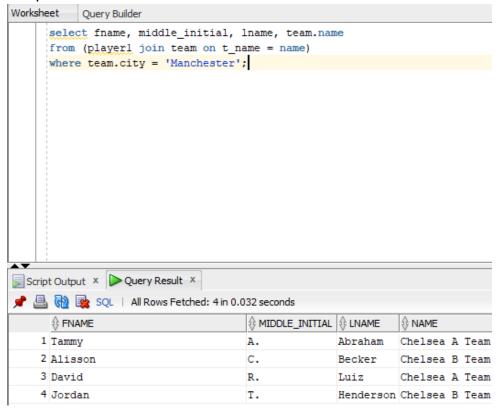


Q2. List the staff members who work in departments located in Chelsea. Output:



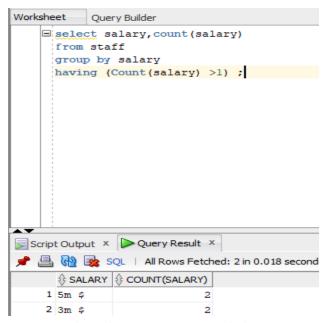
Q3. List the players whose team is in Manchester, England.

Output:



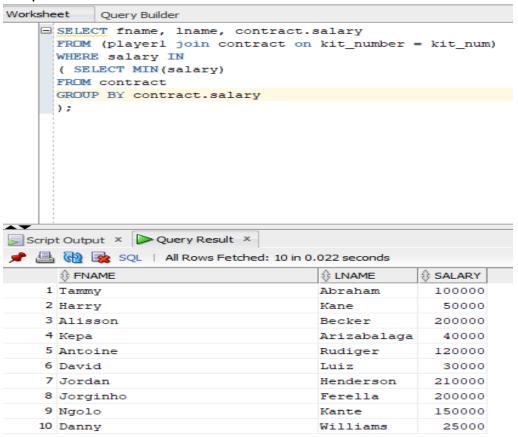
Q4. List duplicate salaries of staff members.

Output:

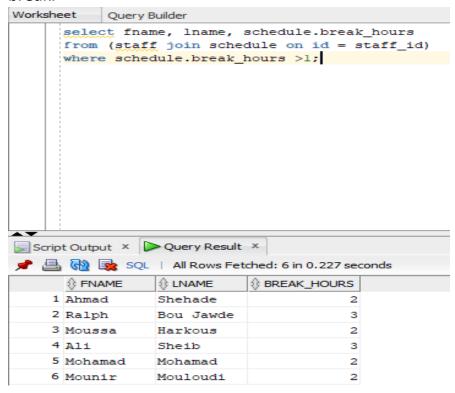


Q5. List the players name and their respective salaries.

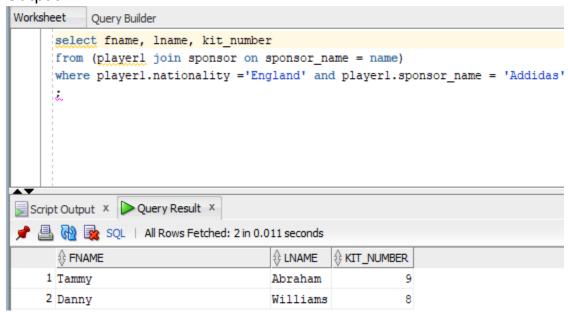
Output:



Q6. List the names of staff members who have more than 1 hour of break.

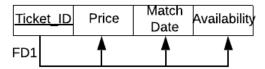


Q7. Retrieve the names of players whose birthdays are in the same year. Output:



X. Normalization:

Ticket:



This relation schema satisfies the condition of the 1NF. It includes neither multi-valued nor composite attributes and all the values of the attributes of this schema are single atomic.

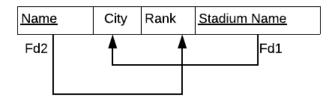
This relation schema is in 2NF because all of its non-prime attributes are fully functional dependent on the single primary key, which is "Ticket_ID".



This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is in BCNF because there is no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey. In other words, we don't have any non-prime attributes that can determine other prime attributes. Therefore, no more work is needed to be done and the schema is in BCNF.

Team:



This relation schema satisfies the condition of the 1NF. It includes neither multi-valued nor composite attributes and all the values of the attributes of this schema are single atomic.

This relation schema is not in 2NF because FD1 and FD2 violates the satisfactory condition of 2NF. FD1 is partially dependent on part of the candidate key which is represented by the set {Name, Stadium Name} which means that no fully functional dependency exists. In order to normalize the required relation schema, we have to decompose it.

This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is not in BCNF because FD2 violates the satisfactory condition of BCNF.

Staff:



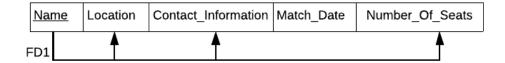
This relation schema does not satisfy the condition of the 1NF. It includes multi-valued and composite attributes and all the values of the attributes of this schema are single atomic.

This relation schema is in 2NF because all of its non-prime attributes are fully functional dependent on the single primary key, which is "ID".

This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is in BCNF because there is no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey. In other words, we don't have any non-prime attributes that can determine other prime attributes. Therefore, no more work is needed to be done and the schema is in BCNF.

Stadium:



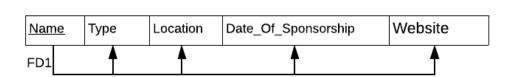
This relation schema satisfies the condition of the 1NF. It includes neither multi-valued nor composite attributes and all the values of the attributes of this schema are single atomic.

This relation schema is in 2NF because all of its non-prime attributes are fully functional dependent on the single primary key, which is "Name".

This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is in BCNF because there is no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey. In other words, we don't have any non-prime attributes that can determine other prime attributes. Therefore, no more work is needed to be done and the schema is in BCNF.

Sponsor:



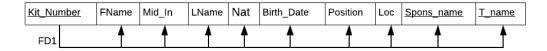
This relation schema satisfies the condition of the 1NF. It includes neither multi-valued nor composite attributes and all the values of the attributes of this schema are single atomic.

This relation schema is in 2NF because all of its non-prime attributes are fully functional dependent on the single primary key, which is "Name".

This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is in BCNF because there is no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey. In other words, we don't have any non-prime attributes that can determine other prime attributes. Therefore, no more work is needed to be done and the schema is in BCNF.

Player:



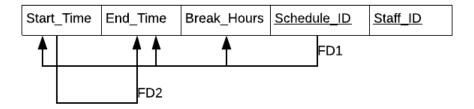
This relation schema does not satisfy the condition of the 1NF. It includes multi-valued and composite attributes and all the values of the attributes of this schema are single atomic.

This relation schema is in 2NF because all of its non-prime attributes are fully functional dependent on the single primary key, which is "Kit_Number".

This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is in BCNF because there is no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey. In other words, we don't have any non-prime attributes that can determine other prime attributes. Therefore, no more work is needed to be done and the schema is in BCNF.

Schedule:



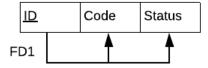
This relation schema satisfies the condition of the 1NF. It includes neither multi-valued nor composite attributes and all the values of the attributes of this schema are single atomic.

This relation schema is in 2NF because all of its non-prime attributes are fully functional dependent on the single primary key, which is "Schedule_ID".

This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is not in BCNF because FD2 violates the satisfactory condition of BCNF.

Locker:



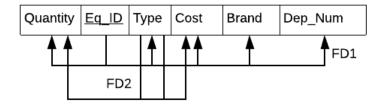
This relation schema satisfies the condition of the 1NF. It includes neither multi-valued nor composite attributes and all the values of the attributes of this schema are single atomic.

This relation schema is in 2NF because all of its non-prime attributes are fully functional dependent on the single primary key, which is "ID".

This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is in BCNF because there is no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey. In other words, we don't have any non-prime attributes that can determine other prime attributes. Therefore, no more work is needed to be done and the schema is in BCNF.

Equipment:



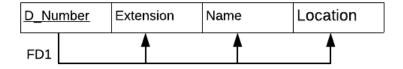
This relation schema satisfies the condition of the 1NF. It includes neither multi-valued nor composite attributes and all the values of the attributes of this schema are single atomic.

This relation schema is in 2NF because all of its non-prime attributes are fully functional dependent on the single primary key, which is "Eq_ID".

This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is not in BCNF because FD2 violates the satisfactory condition of BCNF.

Department:



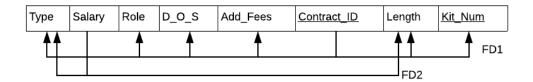
This relation schema satisfies the condition of the 1NF. It includes neither multi-valued nor composite attributes and all the values of the attributes of this schema are single atomic.

This relation schema is in 2NF because all of its non-prime attributes are fully functional dependent on the single primary key, which is "D_Number".

This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is in BCNF because there is no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey. In other words, we don't have any non-prime attributes that can determine other prime attributes. Therefore, no more work is needed to be done and the schema is in BCNF.

Contract:



This relation schema satisfies the condition of the 1NF. It includes neither multi-valued nor composite attributes and all the values of the attributes of this schema are single atomic.

This relation schema is in 2NF because all of its non-prime attributes are fully functional dependent on the single primary key, which is "Kit Number".

This relation schema is in the 3NF because no nontrivial functional dependency $X \rightarrow A$ that holds in it such that X is a superkey or A is a prime attribute. Therefore, further decomposition for this relation is needed.

This relation schema is not in BCNF because FD2 violates the satisfactory condition of BCNF.