

Practicum Preparation 04-25 SQL

Consider the following schema on soccer teams and matches between the “home” and “visiting” teams:

```
TEAM (NAME, YEARLY_BUDGET),  
MATCH (HOME_T → TEAM.NAME, VISIT_T → TEAM.NAME, DATE, HOME_GOALS,  
VISIT_GOALS)
```

as SQL schema:

```
CREATE TABLE team (  
    name STRING,  
    yearly_budget INTEGER,  
    PRIMARY KEY (name));  
  
CREATE TABLE match (  
    home_t STRING,  
    visit_t STRING,  
    date DATE,  
    home_goals INTEGER,  
    visit_goals INTEGER,  
    PRIMARY KEY (home_t, visit_t, date),  
    FOREIGN KEY (home_t) REFERENCES team(name),  
    FOREIGN KEY (visit_t) REFERENCES TEAM(name));
```

Some sample data

```
INSERT INTO team VALUES ('Manchester',500),('Barcelona',400),('Bayern',  
300);
```

```
INSERT INTO match VALUES ('Barcelona','Manchester','2017-03-07',2,0),  
    ('Bayern','Barcelona','2017-04-24',1,1),  
    ('Bayern','Manchester','2017-05-15',0,1),  
    ('Barcelona','Bayern','2017-06-15',3,1);
```

Practicum Questions

1. Write a SQL query that computes a “winners table”, include the date of the match, the home, visiting and winning team while filtering out draws (same number of goals) and order by date.
2. Write a SQL query that computes a table of the top teams including the team name, budget and the number of matches won. The top teams are the ones that have won the most matches.