SQL Code

```sql
1    ----create database L5_team2_DB
2
3    use L5_team2_DB
4
5    ----OWNER
6    --create table Owner_info
7    --(
8    --owner_id varchar(5) not null,
9    --owner_name varchar(50)not null,
10   --contact_info char(8) not null,
11   --DOB date not null,
12   --primary key(owner_id)
13   --);
14
15   --bulk insert owner_info
16   --from 'C:\Users\ollev\Downloads\Owner.txt'
17
18   ----MANAGER
19   --create table Manager_info
20   --(
21   --manager_id varchar(5) not null,
22   --contact_info char(8) not null,
23   --manager_name varchar(50) not null,
24   --DOB date not null,
25   --primary key(manager_id)
26   --);
27
28   --bulk insert manager_info
29   --from 'C:\Users\ollev\Downloads\Manager_info.txt'
30
31   ----FAN
32   --create table Fan_info
33   --(
34   --fan_id varchar(5) not null,
35   --DOB date not null,
36   --fan_name varchar(50),
37   --gender char(1),
38   --contact_info char(8) not null,
39   --primary key(fan_id)
40   --);
41
42   --bulk insert fan_info
43   --from 'C:\Users\ollev\Downloads\Fan_info.txt'
44
45   --PLAYER
46   --create table Player_info
47   --(
48   --player_id varchar(5) not null,
49   --player_name varchar(50) not null,
50   --DOB date not null,
51   --gender char(1),
52   --contact_info char(8) not null,
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53  --primary key(player_id)
54  --);
55
56  --bulk insert player_info
57  --from 'C:\Users\ollev\Downloads\Player_info.txt'
58
59  ----STADIUM
60  --create table stadiuminfo
61  --(
62  --stadium_id varchar(4) not null,
63  --stadium_name varchar(50) not null,
64  --address varchar(50),
65  --primary key(stadium_id)
66  --);
67
68  --bulk insert stadiuminfo
69  --from 'C:\Users\ollev\Downloads\Stadium_info.txt'
70
71  ----PLAYER POSITION
72  --create table player_position
73  --(
74  --position_name varchar(50),
75  --player_id varchar(5),
76  --primary key(position_name, player_id),
77  --foreign key (player_id) references player_info (player_id)
78  --);
79
80  --bulk insert player_position
81  --from 'C:\Users\ollev\Downloads\Player_positions.txt'
82
83  ----CLUB INFO
84  --create table Clubinfo
85  --(
86  --club_id varchar(5) not null,
87  --club_name varchar(50),
88  --mascot varchar(50),
89  --stadium_id varchar(5) not null,
90  --owner_id varchar(5) not null,
91  --primary key(club_id),
92  --foreign key (stadium_id) references stadium_info (stadium_id),
93  --foreign key (owner_id) references owner_info (owner_id)
94  --);
95
96  --bulk insert clubinfo
97  --from 'C:\Users\ollev\Downloads\Club_info.txt'
98
99  ----MEMBERSHIP INFO
100 --create table membership_info
101 --(
102 --member_id varchar(5) not null,
103 --club_id varchar(5) not null,
104 --fan_id varchar(5) not null,
105 --start_date date,
106 --end_date date,
107 --membership_fee numeric(9,2),
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108    --primary key(member_id),
109    --foreign key (club_id) references clubinfo (club_id),
110    --foreign key (fan_id) references fan_info (fan_id)
111    --);
112
113    --bulk insert membership_info
114    --from 'C:\Users\ollev\Downloads\Membership_info.txt'
115
116    ----MANAGER CONTRACT
117    --create table manager_contract
118    --(
119    --mcontract_id varchar(5) not null,
120    --manager_id varchar(5) not null,
121    --annual_manager_salary numeric(9,2),
122    --start_date date,
123    --end_date date,
124    --club_id varchar(5) not null,
125    --primary key(mcontract_id),
126    --foreign key (club_id) references clubinfo (club_id),
127    --foreign key (manager_id) references manager_info (manager_id)
128    --);
129
130    --bulk insert manager_contract
131    --from 'C:\Users\ollev\Downloads\manager_contract.txt'
132
133    ----PLAYER CONTRACT
134    --create table player_contract
135    --(
136    --player_contract_id varchar(5) not null,
137    --player_id varchar(5) not null,
138    --jersey_number varchar(2) not null,
139    --annual_player_salary numeric(9,2),
140    --start_date date,
141    --end_date date,
142    --club_id varchar(5) not null,
143    --primary key(player_contract_id),
144    --foreign key (club_id) references clubinfo (club_id),
145    --foreign key (player_id) references player_info (player_id)
146    --);
147
148    --bulk insert player_contract
149    --from 'C:\Users\ollev\Downloads\player_contract.txt'
150
151    ----MATCH INFO
152    --create table matchinfo
153    --(
154    --match_id varchar(4) not null,
155    --home_team varchar(5) not null,
156    --away_team varchar(5) not null,
157    --match_date datetime not null,
158    --home_score int not null,
159    --away_score int not null,
160    --stadium_id varchar(5) not null,
161    --adult_ticket numeric(9,2),
162    --children_ticket numeric(9,2),
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163    --fan_ticket numeric(9,2),
164    --game_type varchar(50),
165    --season_year varchar(50),
166    --primary key(match_id),
167    --foreign key (home_team) references clubinfo (club_id),
168    --foreign key (away_team) references clubinfo (club_id),
169    --foreign key (stadium_id) references stadium_info (stadium_id),
170    --);
171
172    --bulk insert matchinfo
173    --from 'C:\Users\ollev\Downloads\match_info.txt'
174
175    --TROPHY INFO
176    --create table trophy_info
177    --(
178    --trophy_id varchar(4) not null,
179    --match_id varchar(4) not null,
180    --trophy_name varchar(50),
181    --club_id varchar(5) not null,
182    --primary key(trophy_id),
183    --foreign key (match_id) references matchinfo (match_id),
184    --foreign key (club_id) references clubinfo (club_id),
185    --);
186
187    --bulk insert trophy_info
188    --from 'C:\Users\ollev\Downloads\trophy_info.txt'
189
190    ----SUB INFO
191    --create table substitution_info
192    --(
193    --sub_id varchar(6) not null,
194    --match_id varchar(4) not null,
195    --out_player_id varchar(5) not null,
196    --in_player_id varchar(5) not null,
197    --min_of_change int,
198    --sub_reason varchar(50),
199    --primary key(sub_id),
200    --foreign key (match_id) references matchinfo (match_id),
201    --foreign key (out_player_id) references player_info (player_id),
202    --foreign key (in_player_id) references player_info (player_id)
203    --);
204
205    --bulk insert substitution_info
206    --from 'C:\Users\ollev\Downloads\sub_info.txt'
207
208    ----GOAL INFO
209    --create table goal_info
210    --(
211    --goal_id varchar(6) not null,
212    --match_id varchar(4) not null,
213    --player_id varchar(5) not null,
214    --time_scored datetime,
215    --goal_description varchar(50),
216    --primary key(goal_id),
217    --foreign key (match_id) references matchinfo (match_id),
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218   --foreign key (player_id) references player_info (player_id)
219   --);
220
221   --bulk insert goal_info
222   --from 'C:\Users\ollev\Downloads\goal_info.txt'
223
224   --players involved
225   --create table players_involved
226   --(
227   --match_id varchar(4) not null,
228   --player_id varchar(5) not null,
229   --representing varchar(10)
230   --primary key(match_id,player_id),
231   --foreign key (match_id) references matchinfo (match_id),
232   --foreign key (player_id) references player_info (player_id)
233   --);
234
235   --bulk insert players_involved
236   --from 'C:\Users\ollev\Downloads\players_involved.txt'
237
238   --select * from owner_info
239   --select * from manager_info
240   --select * from fan_info
241   --select * from player_info
242   --select * from stadium_info
243   --select * from player_position
244   --select * from clubinfo
245   --select * from membership_info
246   --select * from manager_contract
247   --select * from player_contract
248   --select * from matchinfo
249   --select * from trophy_info
250   --select * from substitution_info
251   --select * from goal_info
252
253
254   ----14.1
255   --select start_date, sum(membership_fee) as "Total membership fee"
256   --from membership_info
257   --where year(start_date) in ('2023','2024')
258   --group by start_date
259
260   ----14.2
261   --select c.club_name, p.player_name, count(pp.position_name) as "Number of position
s"
262   --from player_info as p
263   --inner join player_position as pp on pp.player_id = p.player_id
264   --inner join player_contract as pc on pc.player_id = p.player_id
265   --inner join club_info as c  on c.club_id    = pc.club_id
266   --group by c.club_name, p.player_id, p.player_name
267   --having count(pp.position_name) >= 2
268   --order by c.club_name, "Number of positions" desc, p.player_name;
269
270
271   ----14.3
```

```sql
272    --select
273    --m.match_id, m.match_date, hc.Club_name as home_team, m.home_score, ac.Club_name as
away_team, m.away_score, p.Player_id, p.player_Name as player_name, i.representing,
274    --(select count(*)
275    --from goal_info as g
276    --where g.match_id = m.match_id
277    --and g.player_id = p.Player_id) as goals_scored
278    --from matchinfo as m
279    --inner join clubinfo as hc on hc.club_id = m.home_team
280    --inner join clubinfo as ac on ac.club_id = m.away_team
281    --inner join players_involved as i  on i.match_id = m.match_id
282    --inner join Player_info as p on p.Player_id = i.player_id
283    --where m.match_date >= '2024-01-01' and m.match_date <  '2025-01-01'
284    --  and (
285    --       (hc.club_name like 'Liverpool%' and ac.club_name like 'Manchester City%')
286    --    or (hc.club_name like 'Manchester City%' and ac.club_name like 'Liverpool%')
287    --  )
288    --order by i.representing, p.player_name;
289
290    ----14.4
291    select * from matchinfo
292    where ((home_score-away_score) >=3 or (away_score-home_score) >=3)
293    and year(match_date) between 2023 and 2024
294
295    --14.5
296    --select club_id, manager_id, start_date
297    --from manager_contract
298    --where year(start_date) between 2019 and 2023
```