Title : rollandgarrose tennis organize tournament

Names of the members :

.1) Ahmed Abdelhakeem ahmed

.2) Mahmoud ahmed refaat

.3) Mohamed ahmed abdelwahab

.4) Mohamed ashraf kamal

.5) Mohamed hamdon abbas

Supervisors name:

Dr Wael Zakaria

Problem statement & the importance of your database:

It's a db for organization the atp world tour tennis tournament and organizes the player and courts …etc
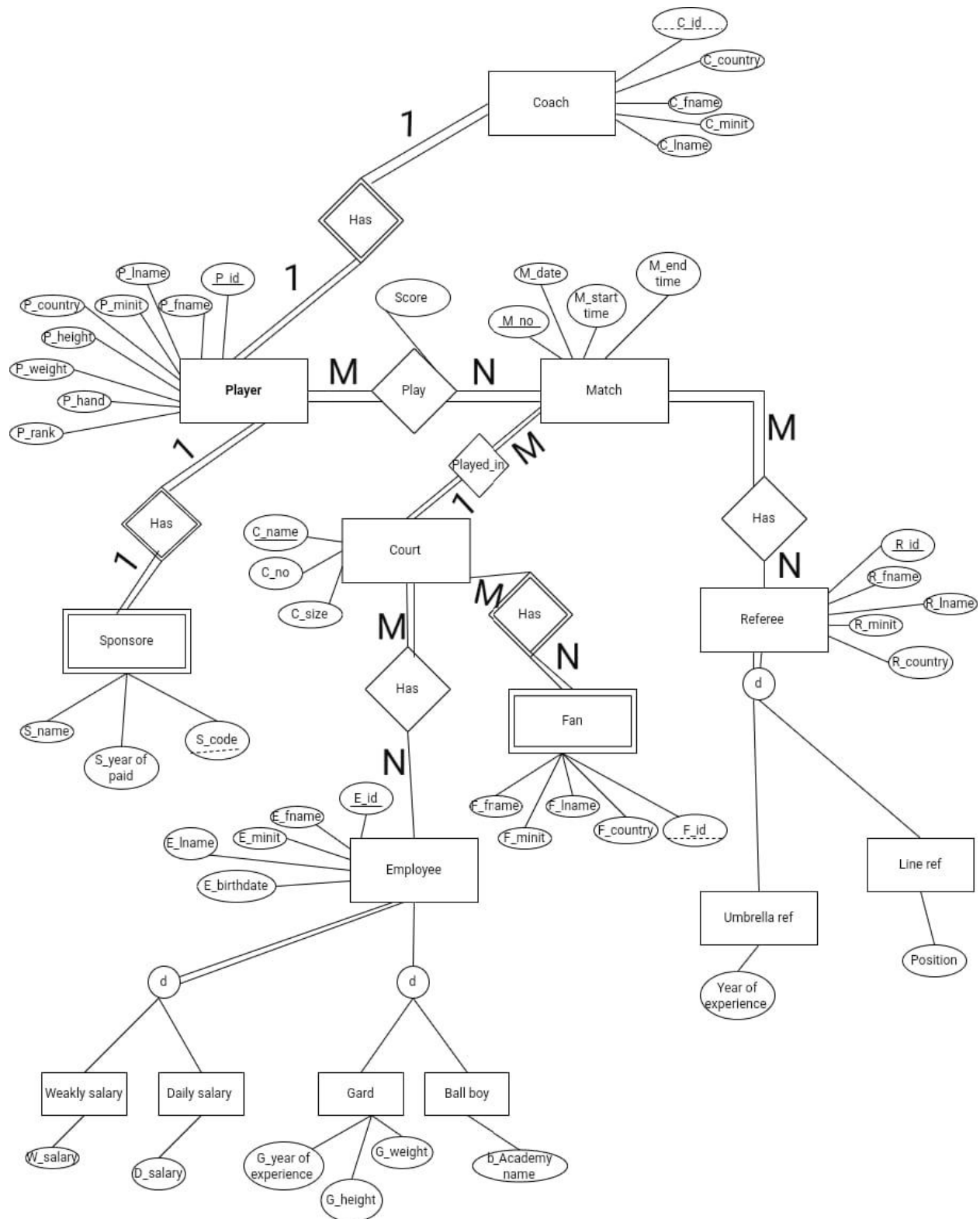
requirements

Let a sample database application called(Rolland_garos tennis orgnise) that keeps track of a Rolland_garos tennis orgnise 's player,coatch,referee.
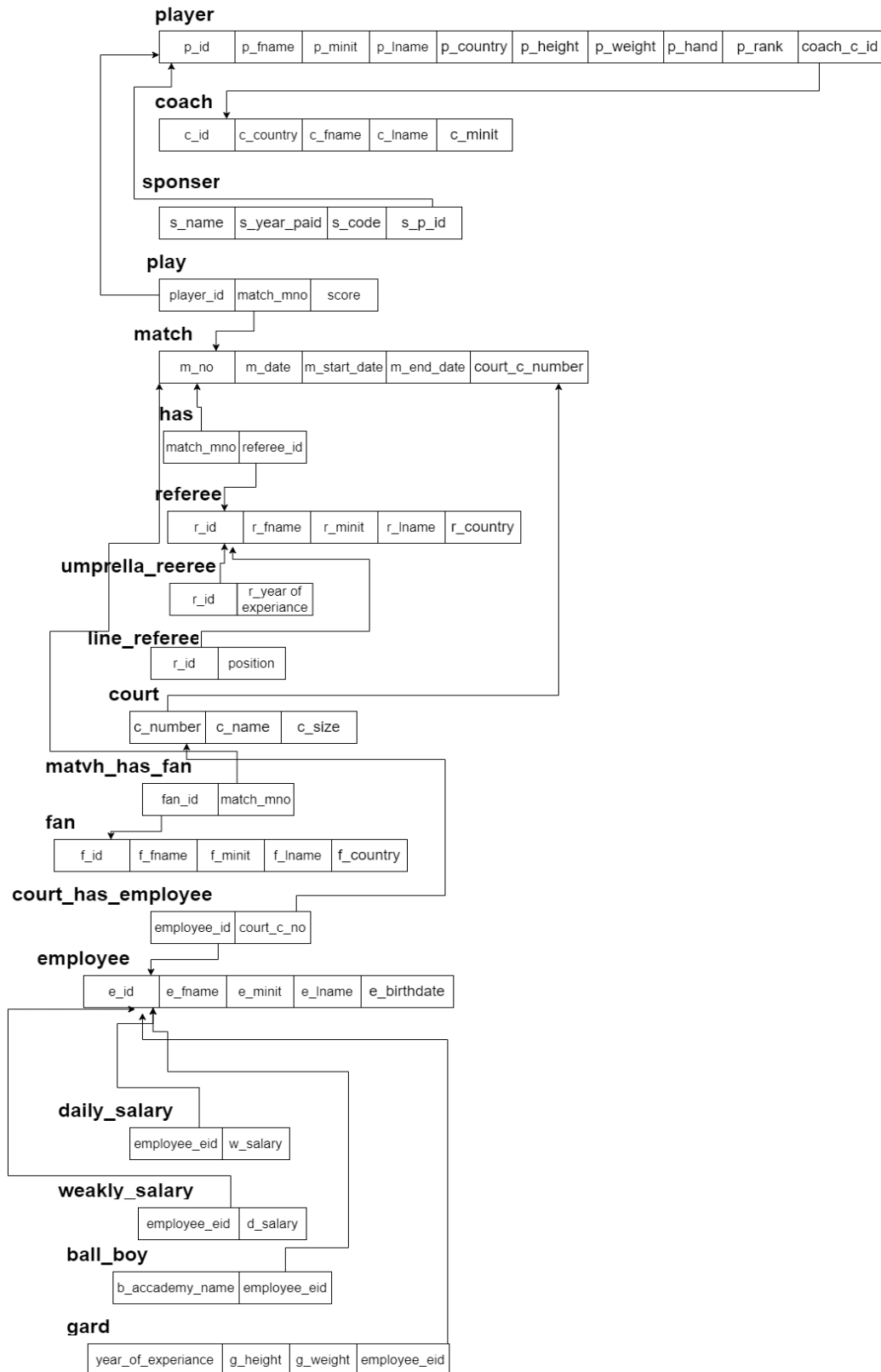
Data requirements for the Rolland_garos tennis orgnise database are:

-a)Each Player has a name,a unique id,a country,a player_hand(r,l),a rank,a height and a weight.

-b)a Player has a Coatch.

-c)Each Coach has a unique id,a country and a name.

-d)Player related by Match and has score.

-e)Each Match a unique number,a date,a strat time and end time.

-f)Match related by Court.

-g)Each Court has a unique id and name.

-h)Each Player must be have a Sponser.

-i)Each Sponser has a name and a year of paid.

-j)Fans related by Match.

-k)Each Fan has a name and acountry.

-l)Each Match relate by Referee.

-m)Each Referee has a unique id,a name,a country and type(umprella referee,line referee).

-n)Each umprella referee has a year of experience.

-o)Each line referee has a position.

-p)Each Court related by Employee.

-q)Each Employee has a unique id,a name,birth date,type(gard,ball boy)and has two type os salary(daily salary,weekly salary).

-r)Each Gard has a year of experiance,a height and a weight.

-s)Each Ball boy has acdaemay name.

EER Diagram

Relational model

player

p_id	p_fname	p_minit	p_lname	p_country	p_height	p_weight	p_hand	p_rank	coach_c_id

coach

c_id	c_country	c_fname	c_lname	c_minit

sponser

s_name	s_year_paid	s_code	s_p_id

play

player_id	match_mno	score

match

m_no	m_date	m_start_date	m_end_date	court_c_number

has

match_mno	referee_id

referee

r_id	r_fname	r_minit	r_lname	r_country

umprella_reeree

r_id	r_year of experiance

line_referee

r_id	position

court

c_number	c_name	c_size

matvh_has_fan

fan_id	match_mno

fan

f_id	f_fname	f_minit	f_lname	f_country

court_has_employee

employee_id	court_c_no

employee

e_id	e_fname	e_minit	e_lname	e_birthdate

daily_salary

employee_eid	w_salary

weakly_salary

employee_eid	d_salary

ball_boy

b_accademy_name	employee_eid

gard

year_of_experiance	g_height	g_weight	employee_eid

Inserted tables

Table Name: ball_boy

baccademyname	employee_eid
rafaelnadal accademy	1111
patric accademy	2222
ahly accademy	8888
NULL	NULL

Table Name: player **Schema:** rollandgaross_tournment_organistaion

pid	pfname	minit	plname	pcountry	pheight	pwieght	phand	prank	coatch_cid
888	ahmed	a	ali	egypt	166	66	l	8	987
444	alexander	d	zverev	germany	180	80	r	4	456
777	andry	g	rublev	russia	188	87	r	7	789
555	carlos	e	alcaraz	spain	185	85	r	5	567
666	danial	f	medvedev	russia	192	92	r	6	678
333	novak	c	djocovic	serbia	180	80	r	3	345
111	rafael	b	nadal	spain	190	90	l	1	123
222	roger	a	federer	switzerland	190	90	r	2	234
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Table Name: coatch **Schema:** rollandgaross_tournment_organistaion

cid	ccountry	cfname	cminit	clname
123	spain	will	a	smith
234	egypt	mohsen	b	ahmed
345	spain	juan	c	delpo
456	germany	michel	d	filib
567	russia	victor	d	hamdon
678	germany	muller	e	peter
789	morocco	amrabet	f	ali
987	spain	juan	g	andy
NULL	NULL	NULL	NULL	NULL

Table Name: play   **Schema:** rollandgaross_tournment_organistaion

Filter Rows: Edit: Export/Import: Wrap Cell Content: Apply changes:

player_pid	match_mno	score
111	11	3
222	11	0
333	22	3
444	22	1
555	33	3
666	33	2
777	44	1
888	44	3
111	55	3
333	55	1
555	66	2
888	66	3
111	77	3
888	77	0
NULL	NULL	NULL

Table Name: referee   **Schema:** rollandgaross_tournment_org

Filter Rows: Edit: Export/Import: Wrap Cell Content: Apply changes:

rid	rfname	rminit	rlname	rcountry
1	brono	a	fernandes	spain
2	ahmed	b	hakeem	egypt
3	mahmoud	c	reffat	spain
4	mahmed	d	hamdon	germany
5	mahmed	e	ashraf	germany
6	mahmed	f	hoba	spain
7	ali	g	taha	egypt
8	mohamed	h	lehyani	france
9	will	i	hakeem	france
NULL	NULL	NULL	NULL	NULL

Table Name: has

match_mno	referee_rid
11	1
11	4
11	5
11	6
11	7
11	8
11	9
22	2
22	4
22	5
22	6
22	7
22	8
22	9
33	3
33	4
33	5
33	6
33	7

Columns   Indexes   Foreign Keys   Triggers   Partition

Table Name: referee   **Schema:** rollandgaross_tournment_

rid	rfname	rminit	rlname	rcountry
1	brono	a	fernandes	spain
2	ahmed	b	hakeem	egypt
3	mahmoud	c	reffat	spain
4	mahmed	d	hamdon	germany
5	mahmed	e	ashraf	germany
6	mahmed	f	hoba	spain
7	ali	g	taha	egypt
8	mohamed	h	lehyani	france
9	will	i	hakeem	france
NULL	NULL	NULL	NULL	NULL

Columns   Indexes   Foreign Keys   Triggers   Partitioning   Options   Inserts   Privileges

Table Name: sponser

sname	syearpaid	spid	scode
nike	3	111	1
addidas	2	222	2
puma	3	333	3
babolat	3	444	4
wilson	2	555	5
bp	3	666	6
rolex	2	777	7
casio	3	888	8
NULL	NULL	NULL	NULL

Table Name: court

c_no	c_name	c_size
1	philippe	78*21
2	suzanne	78*22
3	simmone	78*21
4	lenglen	78*20
NULL	NULL	NULL

Table Name: fan_has_match

fan_fid	match_mno
1	22
2	22
3	33
4	44
5	33
6	44
7	66
8	77
9	66
10	55
11	11
NULL	NULL

Table Name: umprella_ref

Filter Rows: Edit:

ryexperiance	referee_rid
6	1
5	2
4	3
NULL	NULL

Table Name: line_ref

Filter Rows: Edit: Expor

position	referee_rid
left back	4
right back	5
left front	6
right front	7
line1	8
line2	9
NULL	NULL

Table Name: court_has_employee

employee_eid	court_c_no
1111	1
2222	1
3333	1
4444	1
5555	2
6666	2
7777	2
8888	2
1111	3
2222	3
3333	3
4444	3
5555	4
6666	4
7777	4
8888	4
NULL	NULL

Table Name: fan   **Schema:** rollandgaross_tournment_organistaion

ffname	fminit	flname	fcountry	fid
ahmed	a	omar	france	1
mahmed	b	hamed	spain	2
micheal	c	peter	spain	3
sara	d	emad	france	4
nada	e	naser	egypt	5
maha	f	ahmed	germany	6
omar	g	qady	russia	7
jack	h	sock	france	8
nour	i	ali	egypt	9
rabab	j	mahmed	france	10
peter	k	meteas	france	11
NULL	NULL	NULL	NULL	NULL

Table Name: employee **Schema:** rollandgaross_tournment_organista

Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Apply changes:

eid	efname	eminit	elname	ebirthdate
1111	medo	a	walid	13-12-2006
2222	tamer	b	ahmed	14-12-2004
3333	mahmed	c	ahmed	03-12-1998
4444	samr	d	rami	16-12-1997
5555	samy	e	ramiz	20-12-1999
6666	timothy	f	patrec	13-12-1998
7777	karim	g	mahmed	18-10-1996
8888	yaya	h	asfy	13-12-2000
NULL	NULL	NULL	NULL	NULL

Table Name: weekly_salary

Filter Rows: | Edit:

wsalary	employee_eid
1230	1111
1300	2222
2222	3333
2000	4444
2300	5555
NULL	NULL

Table Name: daily_salary

Filter Rows: | Edit:

dsalary	employee_eid
150	6666
200	7777
250	8888
NULL	NULL

Table Name: gard

Filter Rows: | Edit: | Export/Import

yearofex	gheight	gweight	employee_eid
3	180	80	3333
5	190	90	4444
6	187	87	5555
3	188	88	6666
4	190	90	7777
NULL	NULL	NULL	NULL

Queries

```
2      /*show players and their ranks which rank less than 5*/
3 •    select pfname as Player_name , prank as ATP_Rank
4      from player
5      where prank<5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Player_name	ATP_Rank
rafael	1
roger	2
novak	3
alexander	4

```
6      /* show the highest player and his height  */
7 •    select pfname as highest_player , pheight as the_height
8      from player
9      where pheight =
10   ⊖ (select max(pheight)
11        from player);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

highest_player	the_height
danial	192

```
12        /*show the players that won a game */
13  ●   select distinct p.pfname
14        from player p , play y
15        where p.pid=y.player_pid and y.score=3;
```

Result Grid | Filter Rows: | Export: | Wrap Cell

pfname
rafael
novak
carlos
ahmed

```
16        /*show the players and their height in descending oreder */
17  ●   SELECT
18        pfname AS `tallest_player`, pheight AS the_height
19    FROM
20        player
21    ORDER BY pheight DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

tallest_player	the_height
danial	192
rafael	190
roger	190
andry	188
carlos	185
novak	180
alexander	180
ahmed	166

```sql
23      /*show the rollandgaross tournment winner */
24 •    select p.pfname as the_winner
25      from player p , play y
26      where p.pid=y.player_pid and y.score=3
27      group by p.pfname
28      having count(y.score)=3;
```

Result Grid | Filter Rows: | Export: | Wrap

the_winner
▶ rafael

```sql
29      /* show the loser and winner and match number which player first name is rafael */
30 •    select distinct p.pfname as winner_player , y.match_mno as match_no,
31       n.pfname as loser_againest_winner
32      from player p , play y , player n , matchh m , play o
33      where (p.pid=y.player_pid  and p.pfname='rafael' and y.score=3) and
34       ( n.pid=o.player_pid and y.match_mno=o.match_mno and o.score<3 );
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ‡A

winner_player	match_no	loser_againest_winner
▶ rafael	11	roger
rafael	55	novak
rafael	77	ahmed

```
35      /* show player first name  and their sponser name  */
36 •    select p.pfname as player , s.sname as sponser_of_name
37      from player p join sponser s
38      on p.pid = s.spid ;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

player	sponser_of_name
rafael	nike
roger	addidas
novak	puma
alexander	babolat
carlos	wilson
danial	bp
andry	rolex
ahmed	casio

```
39      /* show employee name which has max daily salary  */
40 •    select e.efname as Employee_name, d.dsalary as Max_salary
41      from employee e join daily_salary d
42      on e.eid=d.employee_eid and d.dsalary=
43   ⊖  (select max(d.dsalary)
44      from daily_salary d natural join employee e);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

Employee_name	Max_salary
yaya	250

Low system resources may aff
closing some applications to

```
45      /* show employee max an min salary */
46 •    select max(w.wsalary) as Max_salary,min(w.wsalary) as Mini_salary
47      from employee e join weekly_salary w
48      on e.eid=w.employee_eid;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

Max_salary	Mini_salary
2300	1230

Low system resources may affect yo
closing some applications to impr

```
49      /* show the player and their coach name*/
50 ●    select p.pfname as  Player_name, c.cfname as Coach_name
51      from player p join coatch c
52      on p.coatch_cid = c.cid;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |A

Player_name	Coach_name
rafael	will
roger	mohsen
novak	juan
alexander	michel
carlos	victor
danial	muller
andry	amrabet
ahmed	juan

```
53      /*show player name that played in court philippe  */
54 ●    select p.pfname as players_in_court_philippe
55      from player p join play x
56      on p.pid=x.player_pid
57       join
58      matchh m
59      on m.mno=x.match_mno
60      join
61      court c
62      on c.c_no=m.court_c_no and
63      c.c_name='philippe';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

players_in_court_philippe
rafael
roger
novak
alexander

```
64      /* show players that have  letter " o " in their name */
65  •   select p.pfname
66      from player p , play y
67      where p.pid = y.player_pid and y.score=3 and p.pfname like '%o%';
68
```

pfname
novak
carlos

```
69      /* show the match loser in this torny */
70  •   select p.pfname as loser_of_the_tournment
71      from player p , play y
72      where p.pid = y.player_pid and y.score in (1 , 2 , 0);
```

loser_of_the_tournment
roger
novak
alexander
carlos
danial
andry
ahmed

```sql
73      /* show the number of fans in every match */
74 •    select count(f.fid) as the_number_attendance , y.match_mno as match_number
75      from fan f , fan_has_match y , matchh m
76      where f.fid=y.fan_fid and m.mno=y.match_mno
77      group by y.match_mno ;
```

Result Grid | ⊞ | ↻ Filter Rows: [   ] | Export: 🖫 | Wrap Cell Content: 𝟙A

the_number_attendance	match_number
1	11
2	22
2	33
2	44
1	55
2	66
1	77

```sql
79      /* show gard name and their year of experiance */
80 •    select e.efname as gard_name , g.yearofex as year_of_experiance
81      from gard g join employee e
82      on g.employee_eid=e.eid
83      order by g.yearofex ;
```

Result Grid | ⊞ | ↻ Filter Rows: [   ] | Export: 🖫 | Wrap Cell Content: 𝟙A

gard_name	year_of_experiance
mahmed	3
timothy	3
karim	4
samr	5
samy	6

```
85      /* show ball boy and their accademy which match number is =11 */
86 ●    select e.efname as Ball_boy, b.baccademyname as Academy_name , m.mno as Match_number
87      from employee e join ball_boy b
88      on e.eid=b.employee_eid
89      join court_has_employee c
90      on e.eid=c.employee_eid
91      join court o
92      on c.court_c_no=o.c_no
93      join matchh m
94      on m.court_c_no=o.c_no
95      and m.mno=11;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

Ball_boy	Academy_name	Match_number
medo	rafaelnadal accademy	11
tamer	patric accademy	11

```
97      /* show gards name which match number is 22 */
98 ●    select e.efname as Gard_name , m.mno as Match_number
99      from employee e join gard g
100     on e.eid=g.employee_eid
101     join court_has_employee c
102     on e.eid=c.employee_eid
103     join court o
104     on c.court_c_no=o.c_no
105     join matchh m
106     on m.court_c_no=o.c_no
107     and m.mno=22;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Conter

Gard_name	Match_number
mahmed	22
samr	22

```
109      /* show number of referee that particpate in match 11 */
110 ●    select count(r.rid) as number_of_referee , m.mno as match_no
111      from referee r , has h , matchh m
112      where r.rid=h.referee_rid and m.mno=h.match_mno and m.mno=11;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

number_of_referee	match_no
7	11

```
115      /*show line referee name (first and last combined) and their position which match number is 33  */
116 ●    select concat ( r.rfname ,'  ', r.rlname) as line_referee , m.mno as Match_number , l.position
117      from referee r join line_ref l
118      on r.rid=l.referee_rid
119      join has h
120      on h.referee_rid=r.rid
121      join matchh m
122      on m.mno=h.match_mno
123      and m.mno=33;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

line_referee	Match_number	position
mahmed hamdon	33	left back
mahmed ashraf	33	right back
mahmed hoba	33	left front
ali taha	33	right front
mohamed lehyani	33	line1
will hakeem	33	line2

```
124      /* show umberlla referee name (first and last combined) which match number is 33  */
125 •    select concat ( r.rfname ,'  ', r.rlname) as umbrella_referee , m.mno as Match_number
126      from referee r join umprella_ref u
127      on r.rid=u.referee_rid
128      join has h
129      on h.referee_rid=r.rid
130      join matchh m
131      on m.mno=h.match_mno
132      and m.mno=33;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

umbrella_referee	Match_number
▶ mahmoud reffat	33

```
134      /* show player name and his coach which they are in same country */
135 •    select p.pfname as player , c.cfname as coach , p.pcountry as country
136      from player p , coatch c
137      where p.coatch_cid=c.cid and p.pcountry=c.ccountry;
138
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

player	coach	country
▶ rafael	will	spain
alexander	michel	germany

```sql
139    /* show the summation of daily salary and average of daily (by using agregate function) */
140  • select sum(d.dsalary) as sum_of_daily_salary, avg(d.dsalary) as average_of_daily_salary
141    from daily_salary d , employee e
142    where d.employee_eid=e.eid;
143
```

Result Grid | ▦ | ↩ Filter Rows: [   ] | Export: ▦ | Wrap Cell Content: ⫯A

sum_of_daily_salary	average_of_daily_salary
▶ 600	200

```
144        /* retrieve player name and his total score*/
145  ●     select p.pfname as Player_name ,sum(x.score)  as Total_score
146        from player p join play x
147        on p.pid=x.player_pid
148        group by p.pfname
149        order by sum(x.score) asc ;
```

	Player_name	Total_score
▶	roger	0
	alexander	1
	andry	1
	danial	2
	novak	4
	carlos	5
	ahmed	6
	rafael	9

Result Grid | Filter Rows: | Export: | Wrap Cell Content: