

## SporstClub

1. 

```
1 SELECT *
2 FROM member
3 WHERE parentName IS NOT NULL AND age < 18
```

Result:

memName	isTrainer	DoB	email	postalCode	gender	entryDate	parentName	age
lisa	0	2015-11-19	figaro@xx.ge	4600	f	NULL	figaro	7
val	0	2013-07-12	val@xx.ge	0103	m	2020-05-01	figaro	10
aron	0	2013-11-06	klopp@xx.ge	0103	m	2020-01-01	klopp	10
rose	0	2015-02-10	lion@xx.ge	0107	f	NULL	lion	8
robin	0	2012-09-16	nelly@xx.ge	4600	m	2017-01-01	nelly	11

2. 

```
1 SELECT *, COUNT(courseID) AS courseCount
2 FROM course
3 GROUP BY area
```

Result:

courseID	courseName	targetGroup	area	trainerName	courseCount
6	high jump	fam	athletics	lena	2
3	running	men	fitness	NULL	4
1	wrestling	men	martialArts	klopp	1
2	waterball	men	watersport	klopp	3

3. 

```
1 SELECT *
2 FROM area a
3 WHERE 3 <= (
4     SELECT COUNT(area)
5     FROM course c
6     WHERE a.area = c.area
7 )
```

Result:

area	description	manager
fitness	Comprises all courses that encrease healthy lifestyle and fitness	lena
watersport	All sports that have to do with water	lazy

4. 

```
1 SELECT MIN(age), MAX(age) FROM member
```

Result:

MIN(age)	MAX(age)
7	58

5. 

```
1 SELECT memName, age, parentName
2 FROM member
3 WHERE age = (SELECT MIN(age) FROM member)
```

Result:

memName	age	parentName
lisa	7	figaro

6.

```

1 SELECT *, (
2     SELECT COUNT(memName) as amt
3     FROM enrollment
4     WHERE courseID = c1.courseID
5 ) memberCount
6 FROM course c1
7 GROUP BY courseID

```

Result:

courseID	courseName	targetGroup	area	trainerName	memberCount
1	wrestling	men	martialArts	klopp	6
2	waterball	men	watersport	klopp	0
3	running	men	fitness	NULL	0
4	jogging	fam	fitness	lena	6
5	fitnessKids	kid	fitness	klopp	7
6	high jump	fam	athletics	lena	8
7	obstacle race	fam	athletics	lena	6
8	swimming	fam	watersport	NULL	0
9	free style	kid	watersport	lazy	1
10	aerobics	fam	fitness	lena	6

7. 1 

```
SELECT COUNT(trainerName) FROM trainer
```

Result:

COUNT(trainerName)
5

8. NULL values get their own group.

```

1 SELECT trainerName, (
2     SELECT COUNT(courseID) as amt
3     FROM course
4     WHERE trainerName = c1.trainerName
5 ) amt
6 FROM trainer c1
7 GROUP BY trainerName

```

Result:

trainerName	amt
coach	0
klopp	3
lazy	1
lena	4
nelly	0

9. 1 

```
SELECT *, TIMESTAMPDIFF(YEAR, DoB, entryDate) AS entryAge
```

  
2 

```
FROM member
```

Result:

memName	isTrainer	DoB	email	postalCode	gender	entryDate	parentName	age	entryAge
aron	0	2013-11-06	klopp@xx.ge	0103	m	2020-01-01	klopp	10	6
coach	1	1988-12-01	coach@xx.ge	4565	m	NULL	NULL	34	NULL
figaro	0	1989-05-07	figaro@xx.ge	3674	m	NULL	NULL	34	NULL
hope	0	1965-09-14	hope@xx.ge	4565	f	2016-03-01	NULL	58	50
klopp	1	1980-12-24	klopp@xx.ge	4600	m	NULL	NULL	42	NULL
lazy	1	1996-11-25	lazy@xx.ge	4600	m	NULL	NULL	26	NULL
lena	1	1995-01-25	lena@xx.ge	0105	f	NULL	NULL	28	NULL
lion	0	1990-10-10	lion@xxx.ge	0103	m	NULL	NULL	33	NULL
lisa	0	2015-11-19	figaro@xx.ge	4600	f	NULL	figaro	7	NULL
luke	0	1998-11-22	luke@xxx.ge	4565	m	NULL	hope	24	NULL
nelly	1	1990-04-21	luke@xx.ge	4565	f	NULL	NULL	33	NULL
robin	0	2012-09-16	nelly@xx.ge	4600	m	2017-01-01	nelly	11	4
rose	0	2015-02-10	lion@xx.ge	0107	f	NULL	lion	8	NULL
val	0	2013-07-12	val@xx.ge	0103	m	2020-05-01	figaro	10	6
valerie	0	1970-03-20	val@xx.ge	0105	f	NULL	NULL	53	NULL

```

10. 1 SELECT AVG(TIMESTAMPDIFF(YEAR, entryDate, CURDATE())) AS avgEntryYear
    2 FROM member

```

Result:

avgEntryYear
4.7500

```

11. 1 SELECT COUNT(memName), (
    2     CASE
    3         WHEN 0 <= age AND age <= 9 THEN "kid"
    4         WHEN 10 <= age AND age <= 19 THEN "teen"
    5         WHEN 20 <= age AND age <= 29 THEN "youngAdult"
    6         WHEN 30 <= age AND age <= 39 THEN "famiIiyages"
    7         WHEN 40 <= age AND age <= 49 THEN "professionalAgers"
    8         WHEN 50 = age AND age <= 59 THEN "bestAgers"
    9         ELSE "other"
   10     END
   11 ) AS ageGroup
   12 FROM member
   13 GROUP BY ageGroup

```

Result:

COUNT(memName)	ageGroup
4	famiIiyages
2	kid
2	other
1	professionalAgers
3	teen
3	youngAdult

```

12. 1 SELECT COUNT(memName), (
    2     CASE
    3         WHEN 0 <= age AND age <= 9 THEN "kid"
    4         WHEN 10 <= age AND age <= 19 THEN "teen"
    5         WHEN 20 <= age AND age <= 29 THEN "youngAdult"
    6         WHEN 30 <= age AND age <= 39 THEN "famiIiyages"
    7         WHEN 40 <= age AND age <= 49 THEN "professionalAgers"
    8         WHEN 50 = age AND age <= 59 THEN "bestAgers"
    9         ELSE "other"
   10     END
   11 ) AS ageGroup
   12 FROM member
   13 GROUP BY ageGroup
   14 ORDER BY age asc

```

Result:

COUNT(memName)	ageGroup
2	kid
3	teen
3	youngAdult
4	famiIiyages
1	professionalAgers
2	other

## University

```

13. 1 SELECT profID, (
    2     SELECT SUM(contactHours)
    3     FROM course
    4     WHERE profID = p.profID
    5 ) contactHours
    6 FROM professor p

```

Result:

profID	contactHours
2125	10
2126	8
2127	NULL
2133	2
2134	2
2136	NULL
2137	8

14. 

```
1 SELECT COUNT(studID)
2 FROM (
3     SELECT studID
4     FROM enrollment
5     GROUP BY studID
6 ) X
```

Result:

COUNT(studID)
6

15. 

```
1 SELECT studID, name, semester
2 FROM student
3 WHERE studID in (
4     SELECT studID
5     FROM enrollment
6     GROUP BY studID
7 )
```

Result:

studID	name	semester
25403	Jonas	12
26120	Fichte	10
27550	Schopenhauer	0
28106	Carnap	3
29120	Theophrastos	0
29555	Feuerbach	2

16. 

```
1 SELECT studID, name, semester
2 FROM student s
3 WHERE 1 = (
4     SELECT COUNT(studID)
5     FROM enrollment
6     WHERE studID = s.studID
7 )
```

Result:

studID	name	semester
25403	Jonas	12
26120	Fichte	10

17. 

```
1 SELECT profID, name, rank
2 FROM professor p
3 WHERE 1 < (
4     SELECT COUNT(assistantID)
5     FROM assistant
6     WHERE p.profID = profID
7 )
```

Result:

profID	name	rank
2125	Sokrates	C4
2127	Kopernikus	C3

The results for each query were auto-generated at the compile-time of the pdf file you are viewing :)