**Задание 1:**

select

sum(

case when class\_status = 'success' then 1 else 0 end :: float

) / count(\*) \* 100 as share

from

skyeng\_db.classes

where

class\_type = 'regular'

**Задание 2:**

select

country,

count(\*)

from

skyeng\_db.teachers

where

max\_teaching\_level in ('Advanced', 'Intermediate')

group by

country

having

count(\*) > 10

**Задание 3:**

select

count(\*)

from

skyeng\_db.classes t1

left join skyeng\_db.teachers t2 on t1.id\_teacher = t2.id\_teacher

where

t2.id\_teacher is null

and t1.class\_type = 'regular'

and date\_trunc('year', class\_start\_datetime) = '2016-01-01'

**Задание 4:**

select

date\_trunc('month', class\_start\_datetime) as mm,

avg(time\_class)

from

(

select

t.\*,

date\_part (

'minute',

(

age(

class\_end\_datetime, class\_start\_datetime

)

)

) as time\_class

from

skyeng\_db.classes t

) t1

where

time\_class > 10

and time\_class < 120

group by

mm

**Задание 5:**

select

max\_teaching\_level,

count(\*) as cnt

from

(

select

t.\*,

dense\_rank() over (

partition by user\_id

order by

class\_start\_datetime desc

) as num\_class\_user

from

skyeng\_db.classes t

) t1

join skyeng\_db.teachers t2 on t1.id\_teacher = t2.id\_teacher

where

num\_class\_user <= 3

and max\_teaching\_level is not null

group by

max\_teaching\_level

order by

cnt desc

**Задание 6:**

select

user\_id,

avg(between\_class) as avg\_class

from

(

select

t.\*,

age(

class\_start\_datetime,

(

lag(class\_start\_datetime) over (

partition by user\_id

order by

class\_start\_datetime

)

)

) as between\_class,

count(\*) over (partition by user\_id) as cnt

from

skyeng\_db.classes t

where

class\_status = 'success'

) t1

where

cnt > 1

group by

user\_id

order by

avg\_class