**ТЗ**

**Задание 1**

select t.ratio

from

(select count(\*) as cnt

, sum(case when class\_status = ‘success’ and class\_type = ‘regular’ then 1.0 else 0.0 end) as flag\_status

, sum(case when class\_status = ‘success’ and class\_type = ‘regular’ then 1.0 else 0.0 end)/count(\*) as ratio

from skyeng\_db.classes

) t

**Задание 2**

select country

, count(id\_teacher) as cnt\_teacher

from skyeng\_db.teachers

where max\_teaching\_level = 'Advanced' or max\_teaching\_level = 'Intermediate'

group by country

having count(id\_teacher) > '10'

order by cnt\_teacher desc

**Задание 3**

select count(\*)

from skyeng\_db.classes a

left join skyeng\_db.teachers b

on a.id\_teacher = b.id\_teacher

where class\_start\_datetime between '2016-01-01' and '2016-12-31'

and class\_type = 'regular'

and b.id\_teacher is null

**Задание 4**

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

, date\_part('mins', avg(class\_end\_datetime - class\_start\_datetime)) as avg\_time

from skyeng\_db.classes

group by date\_trunc('month', class\_start\_datetime )

having date\_part('mins', avg(class\_end\_datetime - class\_start\_datetime)) > '10'

and date\_part('mins', avg(class\_end\_datetime - class\_start\_datetime)) < '120'

**Задание 5**

select max\_teaching\_level

, count(id\_class)

from

(select t.\*

from

(select \*

, row\_number() over(partition by user\_id order by class\_start\_datetime desc) as number\_lessons

from skyeng\_db.classes a

left join skyeng\_db.teachers b

on a.id\_teacher = b.id\_teacher

) t

where number\_lessons <= 3

order by user\_id

) f

group by max\_teaching\_level

**Задание 6**

select user\_id

, avg(class\_next-class\_start\_datetime) as avg\_between\_lessons

from

(select user\_id

, class\_start\_datetime

, lead (class\_start\_datetime) over (partition by user\_id order by class\_start\_datetime) as class\_next

from skyeng\_db.classes

group by user\_id, class\_start\_datetime

) t

group by user\_id

order by avg(class\_next-class\_start\_datetime)