ГУАП

КАФЕДРА № 43

ОТЧЕТ   
ЗАЩИЩЕН С ОЦЕНКОЙ

ПРЕПОДАВАТЕЛЬ

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| --- | --- | --- | --- | --- |
| Старший преподаватель |  |  |  | Н.В Путилова |
| должность, уч. степень, звание |  | подпись, дата |  | инициалы, фамилия |

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| ОТЧЕТ О ЛАБОРАТОРНОЙ РАБОТЕ №5  Разработка SQL запросов: запросы с подзапросами |
| **по дисциплине: Проектирование баз данных** |
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РАБОТУ ВЫПОЛНИЛ

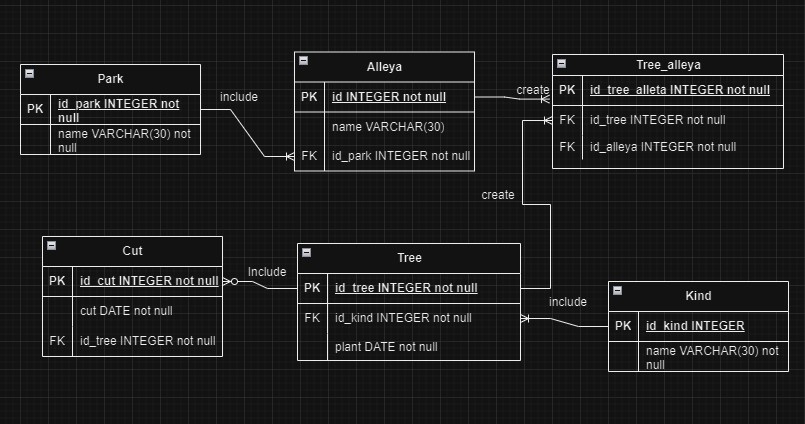
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| --- | --- | --- | --- | --- | --- |
| СТУДЕНТ ГР. | 4134к |  |  |  | Костяков Н.А. |
|  |  |  | подпись, дата |  | инициалы, фамилия |

Санкт-Петербург

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Задание

По аналогии с примерами, приведенными в п. 1 реализовать запросы г) .. ж), указанные в варианте задания. Один из запросов на максимум/минимум реализовать с помощью директивы all Запрос на «все» (реляционное деление) реализовать с помощью 2 not exists Запросы на разность реализовать в 3 вариантах: Not in,except(MySQL не поддерживает, поэтому только синтаксис), с использованием левого/правого соединения

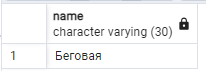


Скрипты

Г)

select \* from tree

where tree.plant >= all(select plant from tree );



д)

select kind.name, count(kind.name) from kind

join tree on tree.id\_kind = kind.id\_kind

join cut on cut.id\_tree = tree.id\_tree

group by kind.name

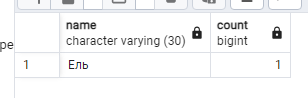
having count(kind.name) = (select min(mcount)

from (select kind.name, count(kind.name)

mcount from kind join tree on tree.id\_kind = kind.id\_kind

join cut on cut.id\_tree = tree.id\_tree

group by kind.name)) ;



е) select distinct kind.name from kind

join tree on tree.id\_kind = kind.id\_kind

join tree\_alleya on tree\_alleya.id\_tree = tree.id\_tree

join alleya on alleya.id\_alleya = tree\_alleya.id\_alleya

join park on park.id\_park=alleya.id\_park

where park.name='Космический' and not exists

(Select \* from alleya

where not exists

(select \* from tree as tr

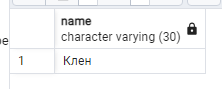
join kind as ki on ki.id\_kind = tr.id\_kind

join tree\_alleya as t\_a on t\_a.id\_tree = tr.id\_tree

where t\_a.id\_alleya = alleya.id\_alleya

and tr.id\_kind = tree.id\_kind

));



ж1)

select alleya.name from alleya

join tree\_alleya as t\_a on t\_a.id\_alleya= alleya.id\_alleya

join tree on tree.id\_tree =t\_a.id\_tree

join kind on kind.id\_kind = tree.id\_kind

where kind.name = 'Дуб'

except

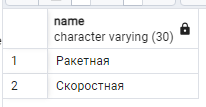
select alleya.name from alleya

join tree\_alleya as t\_a on t\_a.id\_alleya= alleya.id\_alleya

join tree on tree.id\_tree =t\_a.id\_tree

join kind on kind.id\_kind = tree.id\_kind

where kind.name = 'Липа';



2)select distinct alleya.name from alleya

join tree\_alleya as t\_a on t\_a.id\_alleya= alleya.id\_alleya

join tree on tree.id\_tree =t\_a.id\_tree

join kind on kind.id\_kind = tree.id\_kind

where kind.name = 'Дуб'

and alleya.id\_alleya NOT IN (

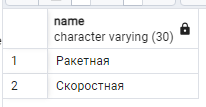
select alleya.id\_alleya from alleya

join tree\_alleya as t\_a on t\_a.id\_alleya= alleya.id\_alleya

join tree on tree.id\_tree =t\_a.id\_tree

join kind on kind.id\_kind = tree.id\_kind

where kind.name = 'Липа');



3)select distinct alleya.name from alleya

join tree\_alleya as t\_a on t\_a.id\_alleya= alleya.id\_alleya

join tree on tree.id\_tree =t\_a.id\_tree

join kind on kind.id\_kind = tree.id\_kind

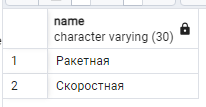
where kind.name = 'Дуб'

and not exists (

select \* from alleya as a2

join tree\_alleya as t\_a on t\_a.id\_alleya= a2.id\_alleya

join tree on tree.id\_tree =t\_a.id\_tree



join kind on kind.id\_kind = tree.id\_kind

where kind.name = 'Липа'

and alleya.id\_alleya = a2.id\_alleya);

4) select distinct alleya.name from alleya

join tree\_alleya on tree\_alleya.id\_alleya = alleya.id\_alleya

join tree on tree.id\_tree = tree\_alleya.id\_tree

join kind on kind.id\_kind = tree.id\_kind

left join

(select \* from alleya2 as a2

inner join tree\_alleya on tree\_alleya.id\_alleya = a2.id\_a inner

join tree on tree.id\_tree = tree\_alleya.id\_tree

inner join kind on kind.id\_kind = tree.id\_kind

where kind.name = 'Липа') as qq

on alleya.id\_alleya = qq.id\_a

where kind.name = 'Дуб'

and qq.id\_a is NULL;

