Arnoldas Milkus

Bendra lentelė

|  |  |  |
| --- | --- | --- |
| Užklausa | Laikas be indeksų(s) | Laikas su indeksais(s) |
| Select | | |
| select SQL\_NO\_CACHE Materials.\* from Materials left join JobsRegister\_Materials on JobsRegister\_Materials.materialId=Materials.materialId where JobsRegister\_Materials.materialId IS NULL order by Materials.price ASC; | 10.86 | 0.00 |
| select SQL\_NO\_CACHE Services.name , count(JobsRegister\_Services.serviceId) as Kiekis from Services left join JobsRegister\_Services on JobsRegister\_Services.serviceId=Services.serviceId inner join JobsRegister on JobsRegister.jobsRegisterId=JobsRegister\_Services.jobsRegisterId where month(JobsRegister.kkTechnicianArrivalDate)=10 or month(JobsRegister.kkTechnicianDepartureDate)=10 group by Services.serviceId order by Kiekis DESC; | 0.48 | 1.02 |
| select SQL\_NO\_CACHE group\_concat(Materials.name SEPARATOR ',') as Medžiagos,sum(JobsRegister\_Materials.count\*Materials.price) as suma, JobsRegister.kkTechnicianArrivalDate , JobsRegister.kkTechnicianDepartureDate from JobsRegister inner join JobsRegister\_Materials on JobsRegister\_Materials.jobsRegisterId=JobsRegister.jobsRegisterId inner join Materials on Materials.materialId=JobsRegister\_Materials.materialId group by JobsRegister.jobsRegisterId order by suma DESC limit 10; | 36.78 | 30.63 |
| Update | | |
| alter table Materials add sum double;  update Materials as m inner join (select Materials.materialId,sum(JobsRegister\_Materials.count\*Materials.price) as suma from Materials left join JobsRegister\_Materials on Materials.materialId=JobsRegister\_Materials.materialId group by Materials.materialId)as A on A.materialId=m.materialId set m.sum=suma; | 45.32 | 0.92 |
| alter table Materials add count double;  update Materials as m inner join (select Materials.materialId,sum(JobsRegister\_Materials.count) as kiekis from Materials left join JobsRegister\_Materials on Materials.materialId=JobsRegister\_Materials.materialId group by Materials.materialId)as A on A.materialId=m.materialId set m.count=kiekis; | 40.82 | 0.72 |
| Delete | | |
| delete from JobsRegister where JobsRegister.kkTechnicianId>66; | 1.91 | 1.62 |
| delete Materials from Materials left join JobsRegister\_Materials on JobsRegister\_Materials.materialId=Materials.materialId where JobsRegister\_Materials.materialId is null; | 19.52 | 0.00 |
| Insert | | |
| 100k vienetų dedama po viena narį (insertOne.php) | 30.50 | 33.27 |
| 100 kartų po 1k vienetų (insertOne.php) | 0.26 | 0.55 |
| select \* from Contracts INTO OUTFILE '/tmp/contracts.csv' FIELDS TERMINATED BY ',' ENCLOSED BY '"' LINES TERMINATED BY '\n';  load data infile '/tmp/contracts.csv' into table Contracts fields terminated by ',' enclosed by '"' lines terminated by '\n'; | 0.19 | 0.48 |

Toliau pateikiama detalesnė ir išskaldyta į dalis informacija

Insert

Užklausos

1. Atspaudinama kurios medžiagos nebuvo panaudotos/pirktos pagal medžiagos kainą didėjimo tvarka.

select SQL\_NO\_CACHE Materials.\* from Materials left join JobsRegister\_Materials on JobsRegister\_Materials.materialId=Materials.materialId where JobsRegister\_Materials.materialId IS NULL order by Materials.price ASC;

1. Suskaičiuoja kiek kartų paslaugos buvo atliekamos spalio mėnesį

select SQL\_NO\_CACHE Services.name , count(JobsRegister\_Services.serviceId) as Kiekis from Services left join JobsRegister\_Services on JobsRegister\_Services.serviceId=Services.serviceId inner join JobsRegister on JobsRegister.jobsRegisterId=JobsRegister\_Services.jobsRegisterId where month(JobsRegister.kkTechnicianArrivalDate)=10 or month(JobsRegister.kkTechnicianDepartureDate)=10 group by Services.serviceId order by Kiekis DESC;

1. Atspausdina 10 didžiausių užsakymų. Taip pat pateikiama visos užsakymos prekės , bendra suma ir techniko atvykimo, išvykimo laikai.

select SQL\_NO\_CACHE group\_concat(Materials.name SEPARATOR ',') as Medžiagos,sum(JobsRegister\_Materials.count\*Materials.price) as suma, JobsRegister.kkTechnicianArrivalDate , JobsRegister.kkTechnicianDepartureDate from JobsRegister inner join JobsRegister\_Materials on JobsRegister\_Materials.jobsRegisterId=JobsRegister.jobsRegisterId inner join Materials on Materials.materialId=JobsRegister\_Materials.materialId group by JobsRegister.jobsRegisterId order by suma DESC limit 10;

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| --- | --- | --- |
| Užklausa | Laikas be indeksų(s) | Laikas su indeksais(s) |
| 1 | 10.86 | 0.00 |
| 2 | 0.48 | 1.02 |
| 3 | 36.78 | 30.63 |

Update

Pirmiausia pasiekeičiame Materials table.

alter table Materials add sum double;

alter table Materials add count double;

Užklausos

1. Apskaičiuojama pirktos medžiagos suma

update Materials as m inner join (select Materials.materialId,sum(JobsRegister\_Materials.count\*Materials.price) as suma from Materials left join JobsRegister\_Materials on Materials.materialId=JobsRegister\_Materials.materialId group by Materials.materialId)as A on A.materialId=m.materialId set m.sum=suma;

1. Apskaičiuojamas medžiagos pirkimo kiekis

update Materials as m inner join (select Materials.materialId,sum(JobsRegister\_Materials.count) as kiekis from Materials left join JobsRegister\_Materials on Materials.materialId=JobsRegister\_Materials.materialId group by Materials.materialId)as A on A.materialId=m.materialId set m.count=kiekis;

|  |  |  |
| --- | --- | --- |
| Užklausa | Laikas be indeksų(s) | Laikas su indeksais(s) |
| 1 | 45.32 | 0.92 |
| 2 | 40.82 | 0.72 |

Delete

užklausos

1. Ištrinami visi techniko,kurio id=66, darbo registrai.

delete from JobsRegister where JobsRegister.kkTechnicianId>66;

1. Ištrinamos nepanaudotos medžiagos.

delete Materials from Materials left join JobsRegister\_Materials on JobsRegister\_Materials.materialId=Materials.materialId where JobsRegister\_Materials.materialId is null;

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| Užklausa | Laikas be indeksų(s) | Laikas su indeksais(s) |
| 1 | 1.91 | 1.62 |
| 2 | 19.52 | 0.00 |

Insert

Pirma sukuriama Contracts table

create table Contracts ( contractId int(15) Auto\_Increment Primary KEY, text varchar(30), number int );

|  |  |  |
| --- | --- | --- |
| Vykdymas | Tik key ant contractId. Laikas(s) | Key uždėti ir ant text ir number. Laikas(s) |
| 100k vienetų dedama po viena narį (insertOne.php) | 30.50 | 33.27 |
| 100 kartų po 1k vienetų (insertOne.php) | 0.26 | 0.55 |
| Load from file | 0.19 | 0.48 |

Load from file vykdymas:

Įsirašomas csv failas

select \* from Contracts INTO OUTFILE '/tmp/contracts.csv' FIELDS TERMINATED BY ',' ENCLOSED BY '"' LINES TERMINATED BY '\n';

Loadinimas naudojamas abiem variantams

load data infile '/tmp/contracts.csv' into table Contracts fields terminated by ',' enclosed by '"' lines terminated by '\n';