## MYSQL II

* number of calls between two person

select from\_id as person1, to\_id as person2,count(duration) as call\_count,sum(duration) as total\_duration

from

(

select \* from Calls

union all

select to\_id, from\_id,duration from Calls

) as new\_table

where from\_id < to\_id

group by person1, person2;

* average selling price

select p.product\_id, round(sum(units\*price)/sum(units),2) as average\_price

from UnitsSold u

join Prices p

using(product\_id)

where datediff(u.purchase\_date, p.start\_date) >=0 and

datediff(u.purchase\_date, p.end\_date)<=0

group by 1;

* warehouse manager

SELECT name AS warehouse\_name, SUM(volume) AS volume

FROM

(SELECT name, w.product\_id ,Width\*Length\*Height\*units AS volume

FROM Warehouse w LEFT JOIN Products p

ON w.product\_id = p.product\_id) l

GROUP BY name

* apple & orrange

select a.sale\_date as sale\_date, a.sold\_num-o.sold\_num as diff

from

(select \* from Sales where fruit = 'apples') a

join

(select \* from Sales where fruit ='oranges') o

on a.sale\_date = o.sale\_date;

select s.sale\_date,

sum(if (s.fruit ='apples', s.sold\_num, -s.sold\_num)) as diff

from Sales s

group by s.sale\_date;

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* monthly transaction

select date\_format(trans\_date,"%Y-%m") as month, country,

count(id) as trans\_count,

sum(case when state ='approved' then 1 else 0 end) as approved\_count,

sum(amount) as trans\_total\_amount,

sum(case when state ='approved' then amount else 0 end ) as approved\_total\_amount

from

Transactions as t

group by country, month(trans\_date);

* percentage of users attend

# Write your MySQL query statement below

select contest\_id, round(user\_count/count(user\_id.Users))as percentage

from

(select contest\_id, count(user\_id) as user\_count

from Register r

group by r.contest\_id) c

order by percentage desc, contest\_id asc;

* immediate food delivery

## MYSQL III

* find the team size

# Write your MySQL query statement below

select country

from

(

select \*

from

(select sum(duration) as sum\_duration, count(\*) as sum\_calls, sum(duration) /count(\*) as avg\_duration, c.name as country

from

(select \*

from Calls

union all

select callee\_id, caller\_id, duration from Calls) as t1

left join person p on p.id = t1.caller\_id

left join country c on c.country\_code = left(p.phone\_number,3)

group by c.name) as t2

)

where avg\_duration >sum(sum\_duration)/sum(sum\_calls)

limit 5;

order by gender, day asc;

* countries you can safely invest in

# Write your MySQL query statement below

select country

from

(select sum(duration) as sum\_duration, count(\*) as sum\_calls, sum\_duration/sum\_calls as avg\_duration c.name as country

from

(select \*

from Calls

union all

select callee\_id, caller\_id, duration from Calls) t1

left join person p on p.id = t1.caller\_id

left join country c on c.country\_code = left(p.phone\_number,3)

group by c.name) t2

where t2.avg\_dutation > sum(sum\_duration)/sum(sum\_calls)

order by avg\_duration desc

limit 1;