

SQL QUERIES

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Query 1

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```
(select Count(*) as c from `Acceptor Diseases` as A
where A.DiseaseName = 'A') as AD
```

```
(select Count(*) as c from `Diseases` as D
where D.DiseaseName = 'A') as DD
```

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Query 2

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```
Select DISTINCT(D.DonorID) from `Donor Requests` as D
INNER JOIN `Donor Blood Groups` as DBG
ON DBG.DonorID = D.DonorID,
    (Select ABG.BloodGroupID, count(*) as c from `Acceptor Requests` as AR
INNER JOIN `Acceptor Blood Groups` as ABG
ON AR.AccID = ABG.AccID
where AR.RegDate > '2010-10-12' & AR.RegDate < '2018-10-12'
Group By ABG.BloodGroupID
ORDER BY c DESC
```

LIMIT 1) as T
where D.RegDate > '2010-10-12' & D.RegDate < '2018-10-12'
AND DBG.BloodGroupID = T.BloodGroupID

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Query 3

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Select BGG.BloodGroup from `BloodGroup` as BGG,
(Select DBG.BloodGroupID, count(*) as c from `Donor Requests` as DR
INNER JOIN `Donor Blood Groups` as DBG
ON DBG.DonorID = DR.DonorID
AND DR.RegDate < '2020-10-01' AND DR.RegDate > '2015-10-01'
GROUP BY DBG.BloodGroupID
ORDER BY c) as B,
(Select DBG.BloodGroupID, count(*) as c from `Blood Drive` as BD
INNER JOIN `Blood Drive Collection` as BDC
ON BDC.DriveID = BD.ID
INNER JOIN `Donor Blood Groups` as DBG
ON BDC.DonorID = DBG.DonorID
AND BD.DriveDate < '2020-10-01' AND BD.DriveDate > '2015-10-01'
GROUP BY DBG.BloodGroupID
ORDER BY c) as D
where B.c < D.c and B.BloodGroupID = D.BloodGroupID
AND BGG.ID = B.BloodGroupID

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Query 4

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Select D.DonorName ,D.ID from Donor as D, `Donor Blood Groups` as DBG, `BloodGroup` as BG

where D.Sex = 'F'

AND D.ID = DBG.DonorID

AND BG.ID = DBG.BloodGroupID

AND BG.BloodGroup = 'A+'

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Query 5

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Select BG.BloodGroup,Count(*) as c from `Blood Sample` as BS

INNER JOIN `Donor Blood Groups` as DBG

ON DBG.DonorID = BS.DonorID

INNER JOIN `BloodGroup` as BG

ON BG.ID = DBG.BloodGroupID

where BS.BloodBankID = 1

GROUP BY DBG.BloodGroupID

ORDER BY c DESC

LIMIT 1

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Query 6

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```
Select A.AccName, A.ID
from Acceptor as A
where
    (Select MAX(count)
     from (Select B.AID as ID, count(*) as count from
           (Select BI.AccID as AID, BS.DonorID as DID from `Blood Sample` as
BS
           Inner Join `Blood Issued` as BI
           ON BS.SampleID = BI.SampleID) as B
          Group by B.AID , B.DID
          ) as X
     where A.ID = X.ID) > 2;
```

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Query 7

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```
Select AR.AccID from `Acceptor Requests` as AR,
    (Select * from Acceptor as A
     where Exists
```

```

( Select * from `Acceptor Diseases` as AD
where AD.AccID = A.ID)

and

(Select Count(*) from `Blood Issued` as BI
where BI.AccID = A.ID ) <= 1

) as X
where
X.ID = AR.AccID
and
(Select MAX(Y.count) from
(Select AcR.AccID as ID, Count(*) as count
from `Acceptor Requests` as AcR
Group by AcR.AccID) as Y
where X.ID = Y.ID) = (Select Count(*) from `Acceptor Requests` as B where B.AccID =
AR.AccID)

```

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Query 8

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```

Select A.Bgroup , IFNULL(A.S+B.S,0) as count
from

```

```

(Select BG.BloodGroup as Bgroup , sum(Z.Count) as S
from Donor as D
INNER JOIN
    (Select AD.CarrierID as ID, Count(*) as Count from `Diseases` as AD
    Group BY AD.CarrierID ) as Z
ON Z.ID = D.ID
INNER JOIN `Donor Blood Groups` as ABG
ON ABG.DonorID = D.ID
INNER JOIN BloodGroup as BG
ON ABG.BloodGroupID = BG.ID
Group By BG.BloodGroup) as A

```

inner join

```

(Select BG.BloodGroup as Bgroup, sum(D.Count) as S
from Acceptor as A
INNER JOIN
    (Select AD.AccID as ID, Count(*) as Count from `Acceptor Diseases` as AD
    Group BY AD.AccID ) as D
ON D.ID = A.ID
INNER JOIN `Acceptor Blood Groups` as ABG
ON ABG.AccID = A.ID
INNER JOIN BloodGroup as BG
ON ABG.BloodGroupID = BG.ID
Group BY BG.BloodGroup) as B

ON B.Bgroup = A.Bgroup

```

ORDER BY count DESC

LIMIT 1

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Query 9

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Select C.BloodGroup from BloodGroup as C,

(Select DBG.BloodGroupID,count(*) as c from `Blood Drive Collection` as BDC

INNER JOIN `Donor Blood Groups` as DBG

ON BDC.DonorID = DBG.DonorID,

(Select BD.ID from `Blood Drive` as BD

ORDER BY BD.DriveDate DESC

LIMIT 1) as X

where X.ID = BDC.DriveID

Group BY DBG.BloodGroupID) as A,

(Select DBG.BloodGroupID,count(*) as c from `Blood Drive Collection` as BDC

INNER JOIN `Donor Blood Groups` as DBG

ON DBG.DonorID = BDC.DonorID,

(Select BD.ID from `Blood Drive` as BD

ORDER BY BD.DriveDate DESC

LIMIT 1,1) as Y

where Y.ID = BDC.DriveID
Group BY DBG.BloodGroupID) as B

where C.ID = A.BloodGroupID
AND A.BloodGroupID = B.BloodGroupID
AND ((B.c - A.c) / B.c) * 100 >= 10

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Query 10

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Select AVG(RD.age) as average from

(Select DISTINCT(DonorID), YEAR(CURDATE()) - YEAR(DateOfBirth) AS age from
`Blood Sample` as BS

INNER JOIN Donor as D

ON D.ID = BS.DonorID) as RD

Select AVG(DD.age) as average from

(Select DISTINCT(DonorID), YEAR(CURDATE()) - YEAR(DateOfBirth) AS age from
`Blood Drive Collection` as BS

INNER JOIN Donor as D

ON D.ID = BS.DonorID) as DD