Data management assignment SQL

HotelNo:

A01

C01

D01

E01

G01

I01

P01

S01

325 places

29 family

Question 1:

SELECT H.HotelNo, H.Name,

COUNT(R.type) AS SingleRooms

FROM room R, hotel H

WHERE R.type = "single" AND R.HotelNo = H.HotelNo

GROUP BY H.HotelNo;

Question 2:

COMBINE TWO SQL STATEMENTS:

SELECT \* FROM

(SELECT H.HotelNo, H.Name,

COUNT(R.type) AS FamilyRooms

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo AND R.type = "family"

GROUP BY H.HotelNo)

AS FamilyRooms,

(SELECT H.HotelNo, H.Name,

COUNT(R.type) AS FamilyRooms

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo AND R.type = "double"

GROUP BY H.HotelNo)

AS DoubleRooms

;

Remove some selects

SELECT \* FROM

(SELECT H.Name,

COUNT(R.type) AS FamilyRooms,H.HotelNo

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo AND R.type = "family"

GROUP BY H.HotelNo)

AS FamilyRooms,

(SELECT H.HotelNo,

COUNT(R.type) AS FamilyRooms

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo AND R.type = "double"

GROUP BY H.HotelNo)

AS DoubleRooms;

# FINAL: WITHOUT OR, it’s and!

SELECT \* FROM

(SELECT H.Name,

COUNT(R.type) AS FamilyRooms,H.HotelNo

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo AND R.type = "family"

GROUP BY H.HotelNo

HAVING FamilyRooms > 4)

AS FamilyRooms,

(SELECT H.HotelNo,

COUNT(R.type) AS DoubleRooms

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo AND R.type = "double"

GROUP BY H.HotelNo

HAVING DoubleRooms > 4)

AS DoubleRooms

WHERE FamilyRooms.HotelNo = DoubleRooms.HotelNo

;

WITHOUT headers:

SELECT \* FROM

(SELECT H.Name,

COUNT(R.type) AS FamilyRooms,H.HotelNo

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo AND R.type = "family"

GROUP BY H.HotelNo

HAVING FamilyRooms > 4)

AS FamilyRooms,

(SELECT H.HotelNo,

COUNT(R.type) AS DoubleRooms

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo AND R.type = "double"

GROUP BY H.HotelNo

HAVING DoubleRooms > 4)

AS DoubleRooms

WHERE FamilyRooms.HotelNo = DoubleRooms.HotelNo

;

|  | | | | |
| --- | --- | --- | --- | --- |
| [**Name**](https://www.abdn.ac.uk/local/mysql/phpmyadminhomepages/sql.php?db=u01osr15_cs2015&table=&sql_query=SELECT+%2A+FROM%0A%0A%28SELECT+H.Name%2C%0A++++COUNT%28R.type%29+AS+FamilyRooms%2CH.HotelNo%0A++++FROM++room+R%2C+hotel+H%0A++++WHERE+R.HotelNo+%3D+H.HotelNo+AND+R.type+%3D+%22family%22%0A++++GROUP+BY+H.HotelNo%29%0AAS+FamilyRooms%2C+%0A%0A%28SELECT+H.HotelNo%2C%0A++++COUNT%28R.type%29+AS+DoubleRooms%0A++++FROM++room+R%2C+hotel+H%0A++++WHERE+R.HotelNo+%3D+H.HotelNo+AND+R.type+%3D+%22double%22%0A++++GROUP+BY+H.HotelNo%29%0AAS+DoubleRooms%0A%0AWHERE+FamilyRooms.HotelNo+%3D+DoubleRooms.HotelNo%0AAND+FamilyRooms.FamilyRooms+%3E+4%0AORDER+BY+%60FamilyRooms%60.%60Name%60+ASC&session_max_rows=30&token=bc12b59485f0e501ace8d2de9ba19cee) | [**FamilyRooms**](https://www.abdn.ac.uk/local/mysql/phpmyadminhomepages/sql.php?db=u01osr15_cs2015&table=&sql_query=SELECT+%2A+FROM%0A%0A%28SELECT+H.Name%2C%0A++++COUNT%28R.type%29+AS+FamilyRooms%2CH.HotelNo%0A++++FROM++room+R%2C+hotel+H%0A++++WHERE+R.HotelNo+%3D+H.HotelNo+AND+R.type+%3D+%22family%22%0A++++GROUP+BY+H.HotelNo%29%0AAS+FamilyRooms%2C+%0A%0A%28SELECT+H.HotelNo%2C%0A++++COUNT%28R.type%29+AS+DoubleRooms%0A++++FROM++room+R%2C+hotel+H%0A++++WHERE+R.HotelNo+%3D+H.HotelNo+AND+R.type+%3D+%22double%22%0A++++GROUP+BY+H.HotelNo%29%0AAS+DoubleRooms%0A%0AWHERE+FamilyRooms.HotelNo+%3D+DoubleRooms.HotelNo%0AAND+FamilyRooms.FamilyRooms+%3E+4%0AORDER+BY+%60FamilyRooms%60.%60FamilyRooms%60+ASC&session_max_rows=30&token=bc12b59485f0e501ace8d2de9ba19cee) | [**HotelNo**](https://www.abdn.ac.uk/local/mysql/phpmyadminhomepages/sql.php?db=u01osr15_cs2015&table=&sql_query=SELECT+%2A+FROM%0A%0A%28SELECT+H.Name%2C%0A++++COUNT%28R.type%29+AS+FamilyRooms%2CH.HotelNo%0A++++FROM++room+R%2C+hotel+H%0A++++WHERE+R.HotelNo+%3D+H.HotelNo+AND+R.type+%3D+%22family%22%0A++++GROUP+BY+H.HotelNo%29%0AAS+FamilyRooms%2C+%0A%0A%28SELECT+H.HotelNo%2C%0A++++COUNT%28R.type%29+AS+DoubleRooms%0A++++FROM++room+R%2C+hotel+H%0A++++WHERE+R.HotelNo+%3D+H.HotelNo+AND+R.type+%3D+%22double%22%0A++++GROUP+BY+H.HotelNo%29%0AAS+DoubleRooms%0A%0AWHERE+FamilyRooms.HotelNo+%3D+DoubleRooms.HotelNo%0AAND+FamilyRooms.FamilyRooms+%3E+4%0AORDER+BY+%60FamilyRooms%60.%60HotelNo%60+ASC&session_max_rows=30&token=bc12b59485f0e501ace8d2de9ba19cee) | [**HotelNo**](https://www.abdn.ac.uk/local/mysql/phpmyadminhomepages/sql.php?db=u01osr15_cs2015&table=&sql_query=SELECT+%2A+FROM%0A%0A%28SELECT+H.Name%2C%0A++++COUNT%28R.type%29+AS+FamilyRooms%2CH.HotelNo%0A++++FROM++room+R%2C+hotel+H%0A++++WHERE+R.HotelNo+%3D+H.HotelNo+AND+R.type+%3D+%22family%22%0A++++GROUP+BY+H.HotelNo%29%0AAS+FamilyRooms%2C+%0A%0A%28SELECT+H.HotelNo%2C%0A++++COUNT%28R.type%29+AS+DoubleRooms%0A++++FROM++room+R%2C+hotel+H%0A++++WHERE+R.HotelNo+%3D+H.HotelNo+AND+R.type+%3D+%22double%22%0A++++GROUP+BY+H.HotelNo%29%0AAS+DoubleRooms%0A%0AWHERE+FamilyRooms.HotelNo+%3D+DoubleRooms.HotelNo%0AAND+FamilyRooms.FamilyRooms+%3E+4%0AORDER+BY+%60DoubleRooms%60.%60HotelNo%60+ASC&session_max_rows=30&token=bc12b59485f0e501ace8d2de9ba19cee) | [**DoubleRooms**](https://www.abdn.ac.uk/local/mysql/phpmyadminhomepages/sql.php?db=u01osr15_cs2015&table=&sql_query=SELECT+%2A+FROM%0A%0A%28SELECT+H.Name%2C%0A++++COUNT%28R.type%29+AS+FamilyRooms%2CH.HotelNo%0A++++FROM++room+R%2C+hotel+H%0A++++WHERE+R.HotelNo+%3D+H.HotelNo+AND+R.type+%3D+%22family%22%0A++++GROUP+BY+H.HotelNo%29%0AAS+FamilyRooms%2C+%0A%0A%28SELECT+H.HotelNo%2C%0A++++COUNT%28R.type%29+AS+DoubleRooms%0A++++FROM++room+R%2C+hotel+H%0A++++WHERE+R.HotelNo+%3D+H.HotelNo+AND+R.type+%3D+%22double%22%0A++++GROUP+BY+H.HotelNo%29%0AAS+DoubleRooms%0A%0AWHERE+FamilyRooms.HotelNo+%3D+DoubleRooms.HotelNo%0AAND+FamilyRooms.FamilyRooms+%3E+4%0AORDER+BY+%60DoubleRooms%60.%60DoubleRooms%60+ASC&session_max_rows=30&token=bc12b59485f0e501ace8d2de9ba19cee) |
| The Old Pretender | 5 | A01 | A01 | 23 |
| The Queens | 5 | C01 | C01 | 30 |
| The Lion | 10 | G01 | G01 | 35 |
| The Grand | 6 | P01 | P01 | 40 |

SELECT Orders.OrderID, Customers.CustomerName, Orders.OrderDate  
FROM Orders  
INNER JOIN Customers  
ON Orders.CustomerID=Customers.CustomerID;

SELECT H.Name, H.HotelNo, R.Type, R.HotelNo

FROM room R, hotel H

ON R.HotelNo=H.HotelNo

Get All from Both

Limit with both functions

Count results

SELECT \* FROM

(SELECT H.Name,

COUNT(R.type) AS FamilyRooms,H.HotelNo

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo AND R.type = "family"

GROUP BY H.HotelNo)

AS FamilyRooms,

(SELECT H.HotelNo,

COUNT(R.type) AS DoubleRooms

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo AND R.type = "double"

GROUP BY H.HotelNo)

AS DoubleRooms

WHERE FamilyRooms.HotelNo = DoubleRooms.HotelNo

AND (FamilyRooms.FamilyRooms > 4 OR DoubleRooms.DoubleRooms > 4)

;

HAVE type = “family” OR “double” !!!!!

SELECT H.HotelNo, H.Name, COUNT(R.type) AS Rooms

FROM room R, hotel H

WHERE R.HotelNo = H.HotelNo

AND R.type = ("family" OR "double")

AND R.type > 4

GROUP BY H.HotelNo

Question 1

SELECT R.HotelNo,

COUNT(R.type) AS SingleRooms

FROM room R

WHERE R.type = "single"

GROUP BY R.HotelNo;

Question 2

SELECT R.HotelNo, COUNT(R.type) AS Rooms

FROM room R

WHERE R.Type = "family" or R.Type = "double"

GROUP BY R.HotelNo

HAVING COUNT(R.type) >= '4'

ORDER BY Rooms ASC;

Don’t use joins