Hola, FEB_20..!! Good Evening..!!

Group by and Having clause

The GROUP BY clause is a SQL command that is used to **group rows that have the same values**. The GROUP BY clause is used in the SELECT statement .Optionally it is used in conjunction with aggregate functions to produce summary reports from the database.

Group by and Having clause

The queries that contain the GROUP BY clause are called grouped queries and only return a single row for every grouped item.

That's what it does, summarizing data from the database.

Group by and Having clause

The HAVING clause was added to SQL because the WHERE keyword could not be used with aggregate functions.

The HAVING clause is used to restrict the results returned by the GROUP BY clause.

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- The GROUP BY Clause is used to group rows with same values.
- The GROUP BY Clause is used together with the SQL SELECT statement.
- The SELECT statement used in the GROUP BY clause can only be used contain column names, aggregate functions, constants and expressions.
- The HAVING clause is used to restrict the results returned by the GROUP BY clause.

Lets see the example

Sequence for query execution

select Emp_dept as Department, count(*) as No_of_Employee from EMP group by Emp_dept;

Sequence for query execution

- 1. From EMP
- 2. Group by Emp_dept
- 3. having---
- 4. Select Emp_dept as Department, count(*) as No_of_Employee

Write a query to find the fname and addresses as alias for (city, state) of all the student. (due to 138 records you can use limit 20)

| FName | Address |
|---------|--------------------------|
| Abhijit | Navi Mumbai, Maharashtra |

Write a query to find the name first_name, course of all the students who are not having O positive blood grp.

| fname | course | bloodGP |
|---------|--------|------------|
| Abhijit | PG-DAC | A Positive |

Write a query to find the form number, marital status, fees of students those are not having PG-DAC along with their DOB and gender is male.

Write a query to find the first_name, hsc_per,ssc_per of the students who are in PG-DAC course and having more than or equal to 60% in ssc and hsc. (use limit 20)

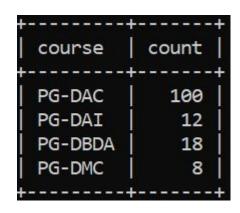
Write a query to find the first_name, hsc_per,ssc_per and Average of ssc + hsc percentage of the students who are top 5 from PG-DAC course and for being in toppers list we have to calculate average of ssc Percentage and hsc percentage

| fname | hsc_per | ssc_per | AVG |
|----------|---------|---------|-------------------|
| Sayali_D | 80 | 95 | 87.5 |
| Madhuri | 86 | 88.6 | 87.3 |
| Pooja | 78.45 | 91.27 | 84.86 |
| Mehul | 80.06 | 89.27 | 84.66499999999999 |
| Akash_A | 74.46 | 92.55 | 83.505 |

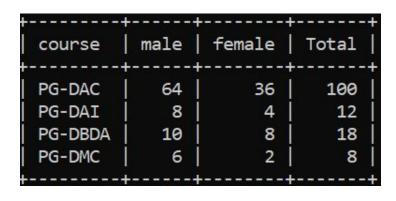
Write a query to find the first_name, gender, course, center, age of those student those are having age more than 25

| fname | gender | course | center | AGE |
|----------|-------------|---------------|--------------|-----|
| Aditya A | + male | + PG-DAC | + C0700 | 26 |
| Aditya B | male | PG-DAC | C0700 | 26 |
| Aditya_C | male | PG-DAC | C0700 | 26 |
| Akash_B | male | PG-DAC | C0700 | 27 |
| Akshay_A | male | PG-DAC | C0700 | 27 |
| Amol | male | PG-DAC | C0700 | 27 |
| Eshan | male | PG-DAC | C0700 | 27 |

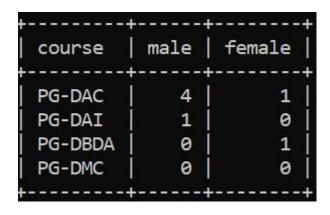
Write a query to get the course and number of student in the each course



write a query to get male count and female count and total count in each course.



find out how many married students are present in each course with separate count for male and female in each course



Gracias..!! Good Night..!!