

#### Republic of the Philippines

# **BICOL UNIVERSITY POLANGUI**

Polangui, Albay https://www.bicol-u.edu.ph/ email: bupc-dean@bicol-u.edu.ph



#### **Insight Documentation**

### **Total Credits Earned by Each Student**

```
Total Credits Earned by Each Student (SUM)

SELECT

S.StudentID,

CONCAT(s.firstname, '', s.lastname) AS StudentName,
SUM(c.credits) AS TotalCredits

FROM

student s

JOIN

course c ON s.CourseID = c.CourseID

JOIN

enrollment e ON s.StudentID = e.StudentID

MHERE

e.status = 'Completed'

GROUP BY

SStudentID

HAVING

SUM(c.credits) > 0

ORDER BY

TotalCredits DESC;
```

We used a query that sums up the total number of academic credits earned by each student, based on completed courses. This gives a clear picture of student progress. Students who have earned the most credits are likely on track to graduate or are outperforming in terms of workload. This information is useful for identifying top-performing students who may be eligible for honors or academic recognition.

```
Export: Wrap Cell Content: TA Fetch rows:
   StudentID StudentName
  279
              Avery Sanchez
                                 27
   48641
              Andrea Griffith
                                 27
   13780
              Sherri Gibson
                                 27
   106408
              Milan Mcgee
                                 27
  23271
   99377
              Fred Huff
                                 27
              Jamel Hendrix
                                 27
   18859
  91985
              Aria Moore
                                 27
  51711
                                 27
             Gayle Wiley
   37906
              Oliver Wilson
                                 27
   108408
             Leopoldo Guerra
                                 27
   52843
              Omar Daniels
                                 27
  50258
             Jayne Sutton
                                27
              Camille Coffey
   74434
   103902
            Avery Garcia
                                 27
```

### **Number of Students Enrolled Per Course**

```
Number of Students Enrolled Per Course (COUNT)

SELECT

c.courseName,

COUNT(e.StudentID) AS TotalStudents

FROM

course c

JOIN

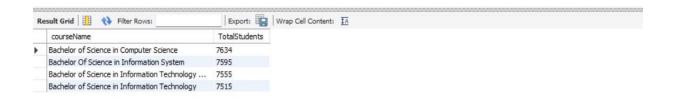
GROUP BY

c.CourseID

ORDER BY

TotalStudents DESC;
```

This query counts how many students are enrolled in each course. The results help highlight which courses are the most and least popular. High-enrollment courses might need larger class sizes or additional sections, while low-enrollment courses could benefit from review—either in terms of curriculum, scheduling, or promotion to students.





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#### Average Grade Per Subject

```
Average Grade Per Subject (AVG)

SELECT

Sub.SubjectName,

AVG(CASE WHEN g.remarks = 'Passed' THEN 1 ELSE 0 END) AS AvgGrade
FROM

Grades g

Multiple grades g

GROUP BY

Sub.Subject sub ON g.SubjectID = sub.SubjectID

GROUP BY

Sub.SubjectID

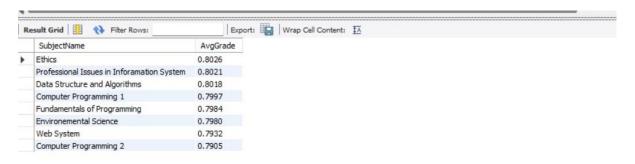
HAVING

COUNT(g.GradeID) > 5 -- Only subjects with more than 5 grades

ORDER BY

AvgGrade DESC;
```

We also calculated the average pass rate for each subject. To ensure accuracy, only subjects with more than five recorded grades were included. This helps identify subjects where students tend to perform well versus those where they struggle. It could be an early signal for reviewing teaching strategies or offering extra support for certain classes.



### **Faculty Members with the Most Enrolled Students**

```
Faculty Members with Most Enrolled Students (JOIN + COUNT)

SELECT

F.FacultyID,
CONCAT(f.firstname, ' ', f.lastname) AS FacultyName,
COUNT(e.StudentID) AS TotalStudents

FROM
faculty f

JOIN
subject sub ON f.SubjectID = sub.SubjectID

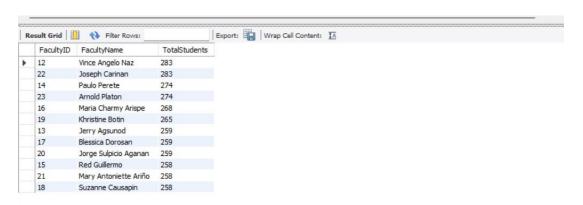
JOIN
classschedule cs ON sub.SubjectID = cs.subjectID

JOIN
enrollment e ON cs.CourseID = e.CourseID AND e.StudentID = cs.StudentID

GROUP BY
f.FacultyID
ORDER BY
TotalStudents DESC

LIMIT 12;
```

This query focused on faculty engagement by counting how many students are associated with each instructor. Faculty with high student counts may be teaching popular subjects or handling large class sizes. This data can help balance workloads and also highlight faculty who might be candidates for additional support or recognition.





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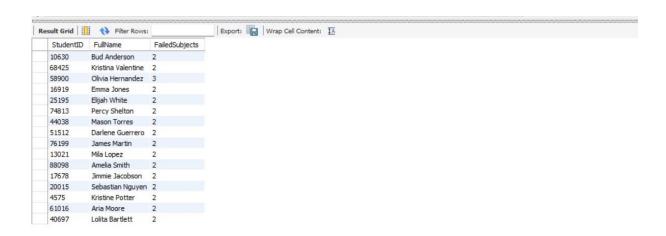
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### **Students Who Failed More Than One Subject**

```
74 Students Who Failed More Than One Subject
75
76 SELECT
77 s.StudentID,
78 CONCAT(s.firstname, ' ', s.lastname) AS FullName,
79 COUNT(*) AS FailedSubjects
80 FROM
81 grades g
82 JOIN
83 student s ON g.StudentID = s.StudentID
84 WHERE
85 g.remarks = 'Failed'
86 GROUP BY
87 s.StudentID
88 HAVING
89 COUNT(*) > 1;
```

Finally, we identified students who failed more than one subject. This list can be used by academic advisors or support staff to check in with those students and provide guidance, tutoring, or other interventions before issues become worse.



## **Suggested Dashboard Elements**

- Bar chart for top students by total credits earned
- Pie or bar chart for enrollment distribution across courses
- Column chart or heatmap for average pass rates by subject
- Faculty leaderboard showing those with the most student enrollments
- Filterable table of students at academic risk (failed more than one subject)