

Student Performance Analysis – SQL Project

Using Scores, Students, Subjects, and Attendance tables

Student-wise marks with attendance status

```
select s.Name,sub.SubjectName,sc.Marks,a.Status
from Scores sc
join Students s ON sc.StudentID=s.StudentID
join Subjects sub ON sc.SubjectID=sub.SubjectID
Left join Attendance a
ON sc.StudentID=a.StudentID and sc.SubjectID=a.SubjectID;
```

Name	SubjectName	Marks	Status
Harsha	Maths	85	Present
Harsha	Physics	90	Absent
Ravi	Maths	78	Present
Sita	Chemistry	88	null

Top performing students based on marks and attendance

```
SELECT s.Name, AVG(sc.Marks) AS AvgMarks,
       SUM(CASE WHEN a.Status='Present' THEN 1 ELSE 0 END)/COUNT(a.AttendanceID) AS
AttendanceRatio
FROM Scores sc
JOIN Students s ON sc.StudentID = s.StudentID
LEFT JOIN Attendance a ON sc.StudentID = a.StudentID AND sc.SubjectID = a.SubjectID
GROUP BY s.Name
HAVING AVG(sc.Marks) > 70
       AND SUM(CASE WHEN a.Status='Present' THEN 1 ELSE 0 END)/COUNT(a.AttendanceID) >
0.5;
```

Name	AvgMarks	AttendanceRatio
Ravi	78.0000	1.0000

Subject-wise average marks

```
select sub.SubjectName,avg(sc.Marks) AS avgmarks
from Scores sc
join Subjects sub ON sc.SubjectID=sub.SubjectID
group by sub.SubjectName;
```

SubjectName	avgmarks
Chemistry	88.0000
Maths	81.5000
Physics	90.0000