**Sql Queries used in Students Performance dashboard**

-- 1. Average Marks by Department

SELECT Department, AVG(Marks) AS Avg\_Marks

FROM Student\_Performance

GROUP BY Department;

-- 2. Average Attendance by Department

SELECT Department, AVG([Attendance (%)]) AS Avg\_Attendance

FROM Student\_Performance

GROUP BY Department;

-- 3. Top 5 Students by Marks (Overall)

SELECT TOP 5 Name, Marks, Department, Semester

FROM Student\_Performance

ORDER BY Marks DESC;

-- 4. Bottom 5 Students by Marks

SELECT TOP 5 Name, Marks, Department, Semester

FROM Student\_Performance

ORDER BY Marks ASC;

-- 5. Top 5 Scorers in Each Subject

SELECT sp.Subject, sp.Name, sp.Marks

FROM Student\_Performance sp

WHERE sp.Marks IN (

SELECT TOP 5 Marks

FROM Student\_Performance s2

WHERE s2.Subject = sp.Subject

ORDER BY Marks DESC

)

ORDER BY sp.Subject, sp.Marks DESC;

-- 6. Count of Students by Grade

SELECT Grade, COUNT(\*) AS Student\_Count

FROM Student\_Performance

GROUP BY Grade

ORDER BY Grade;

-- 7. Average Marks by Semester

SELECT Semester, AVG(Marks) AS Avg\_Marks

FROM Student\_Performance

GROUP BY Semester

ORDER BY Semester;

-- 8. Average Marks by Exam Type

SELECT Exam\_Type, AVG(Marks) AS Avg\_Marks

FROM Student\_Performance

GROUP BY Exam\_Type;

-- 9. Students with Attendance Below 75%

SELECT Name, Department, Semester, [Attendance (%)]

FROM Student\_Performance

WHERE [Attendance (%)] < 75;

-- 10. Number of Students per Department

SELECT Department, COUNT(\*) AS Total\_Students

FROM Student\_Performance

GROUP BY Department;