Student and Assignment Tables.docx”

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| /\*All students and their number of missing assignments\*/  SELECT [AssignmentName], COUNT(\*)  FROM [IT471Assignment]  GROUP BY [AssignmentName]  /\*All students and their number of missing assignments\*/  SELECT LastName, FirstName,COUNT(\*) as NumMissingAssignments  FROM [Student].[dbo].[IT471Student], [Student].[dbo].[IT471Assignment]  WHERE SubmissionTime IS NULL  AND IT471Student.StudentID = IT471Assignment.StudentID  GROUP BY LastName, FirstName  ORDER BY COUNT(\*)    /\*Assignments, their sum and average scores\*/  SELECT [AssignmentName],  SUM([AssignmentScore]),  AVG([AssignmentScore])  FROM [IT471Assignment]  GROUP BY [AssignmentName]  /\*Assignments, their sum and average scores, with better column names\*/  SELECT [AssignmentName],  SUM([AssignmentScore]) as [AggregateScore],  AVG([AssignmentScore]) as [AverageScore],  FROM [IT471Assignment]  GROUP BY [AssignmentName]  /\*Assignments and more statistics\*/  SELECT [AssignmentName],  SUM([AssignmentScore]) as [AggregateScore],  AVG([AssignmentScore]) as [AverageScore],  min([AssignmentScore]) as [Lowest],  max([AssignmentScore]) as [Highest],  SQRT(VAR([AssignmentScore])) as [StandardDeviation]  FROM [IT471Assignment]  GROUP BY [AssignmentName]  /\*Show all late submissions\*/  SELECT [AssignmentName],[SubmissionTime],[DueDate],  FROM [Student].[dbo].[IT471Assignment]  WHERE [SubmissionTime]>[DueDate]  /\*Show all late submissions by how many hours late\*/  SELECT [AssignmentName],[SubmissionTime],[DueDate],  DATEDIFF(HOUR,[DueDate], [SubmissionTime]) as [LateBy (hours)]  FROM [Student].[dbo].[IT471Assignment]  WHERE [SubmissionTime]>[DueDate]  /\*All students and their number of submissions\*/  SELECT [LastName], [FirstName],COUNT(\*) as [NumSubmissions]  FROM [Student].[dbo].[IT471Student], [Student].[dbo].[IT471Assignment]  WHERE [SubmissionTime] IS NOT NULL  AND [IT471Student].[StudentID] = [IT471Assignment].[StudentID]  GROUP BY [LastName], [FirstName]  ORDER BY [NumSubmissions]  \*All students and their number of late or missing submissions\*/  SELECT [LastName], [FirstName],COUNT(\*) as [MissingOrLateSubmission]  FROM [Student].[dbo].[IT471Student], [Student].[dbo].[IT471Assignment]  WHERE ([SubmissionTime] IS NULL OR [SubmissionTime]>[DueDate])  AND [IT471Student].[StudentID] = [IT471Assignment].[StudentID]  GROUP BY [LastName], [FirstName]  ORDER BY [MissingOrLateSubmission]  /\*All students,their average assignment scores (for graded ones only)\*/  SELECT [LastName], [FirstName],  Avg([AssignmentScore]) as [AverageAssignmentScore]  FROM [Student].[dbo].[IT471Student], [Student].[dbo].[IT471Assignment]  WHERE [AssignmentScore] IS NOT NULL  AND [IT471Student].[StudentID] = [IT471Assignment].[StudentID]  GROUP BY [LastName], [FirstName]  /\*All students,their assignment statistics (for graded ones only)\*/  SELECT [LastName], [FirstName],  count(\*) as [NumofGradedSubmissions],  Avg([AssignmentScore]) as [AverageAssignmentScore],  min([AssignmentScore]) as [Lowest],  max([AssignmentScore]) as [Highest]  FROM [Student].[dbo].[IT471Student], [Student].[dbo].[IT471Assignment]  WHERE [AssignmentScore] IS NOT NULL  AND [IT471Student].[StudentID] = [IT471Assignment].[StudentID]  GROUP BY [LastName], [FirstName]  /\*Students,their assignment statistics, for those AVG higher than 80\*/  SELECT [LastName], [FirstName],  count(\*) as [NumofGradedSubmissions],  Avg([AssignmentScore]) as [AverageAssignmentScore],  min([AssignmentScore]) as [Lowest],  max([AssignmentScore]) as [Highest]  FROM [Student].[dbo].[IT471Student], [Student].[dbo].[IT471Assignment]  WHERE [AssignmentScore] IS NOT NULL  AND [IT471Student].[StudentID] = [IT471Assignment].[StudentID]  GROUP BY [LastName], [FirstName]  HAVING Avg([AssignmentScore])>80  /\*Show late submissions by how many hours late, only for those more than 24hr late\*/  SELECT [AssignmentName],[SubmissionTime],[DueDate],  DATEDIFF(HOUR,[DueDate], [SubmissionTime]) as [LateBy (hours)]  FROM [Student].[dbo].[IT471Assignment]  WHERE [SubmissionTime]>[DueDate]  AND DATEDIFF(HOUR,[DueDate], [SubmissionTime])>24  /\*Show assignments which have more than 2 late submissions\*/  SELECT [AssignmentName],COUNT(\*) as NumLateSubmissions  FROM [Student].[dbo].[IT471Assignment]  WHERE [SubmissionTime]>[DueDate]  GROUP BY [AssignmentName]  HAVING COUNT(\*) > 1  /\*Show assignments which have more than 2 late or missing submissions\*/  SELECT [AssignmentName],COUNT(\*) as NumFailedSubmissions  FROM [Student].[dbo].[IT471Assignment]  WHERE [SubmissionTime]>[DueDate] or [SubmissionTime] is NULL  GROUP BY [AssignmentName]  HAVING COUNT(\*) > 1  /\*All students and their number of late or missing submissions\*/  SELECT [LastName], [FirstName],COUNT(\*) as [MissingOrLateSubmission]  FROM [Student].[dbo].[IT471Student], [Student].[dbo].[IT471Assignment]  WHERE ([SubmissionTime] IS NULL OR [SubmissionTime]>[DueDate])  AND [IT471Student].[StudentID] = [IT471Assignment].[StudentID]  GROUP BY [LastName], [FirstName]  HAVING COUNT(\*) > 2  ORDER BY [MissingOrLateSubmission]  /\*All students and their number of missing submissions, assuming late submission after 24 hours is not accepted\*/  SELECT [LastName], [FirstName],COUNT(\*) as [NoCountSubmission]  FROM [Student].[dbo].[IT471Student], [Student].[dbo].[IT471Assignment]  WHERE ([SubmissionTime] IS NULL OR DATEDIFF(HOUR,[DueDate], [SubmissionTime])>24)  AND [IT471Student].[StudentID] = [IT471Assignment].[StudentID]  GROUP BY [LastName], [FirstName]  HAVING COUNT(\*) > 1  ORDER BY [NoCountSubmission] |