
DATABASE I - ASSIGNMENT 4

Summer 2023

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1 View ProjectInfoView

Write an SQL statement to create a view named ProjectInfoView that displays the ProjectName, Department (of the project), FirstName, LastName, and HoursWorked of the employees who worked on the project. After the view is created, write an SQL SELECT statement to query the view and attach the screenshot of the result in the report.

	ProjectName	Department	FirstName	LastName	HoursWorked
1	2019 Q3 Marketing Plan	Sales and Marketing	Ken	Evans	75
2	2019 Q3 Marketing Plan	Sales and Marketing	Ken	Numoto	55
3	2019 Q3 Marketing Plan	Sales and Marketing	Linda	Granger	55
4	2019 Q3 Marketing Plan	Sales and Marketing	Mary	Jacobs	30
5	2019 Q3 Portfolio Analysis	Finance	Ken	Evans	40
6	2019 Q3 Portfolio Analysis	Finance	Mary	Abernathy	45
7	2019 Q3 Portfolio Analysis	Finance	Richard	Bandalone	20
8	2019 Q3 Portfolio Analysis	Finance	Tom	Caruthers	45
9	2019 Q3 Production Plan	Production	Ken	Evans	50
10	2019 Q3 Production Plan	Production	Ken	Numoto	50
11	2019 Q3 Production Plan	Production	Mary	Jacobs	30
12	2019 Q3 Production Plan	Production	Mary	Smith	75
13	2019 Q3 Production Plan	Production	Tom	Jackson	75
14	2019 Q3 Tax Preparation	Accounting	Heather	Jones	50
15	2019 Q3 Tax Preparation	Accounting	Ken	Evans	40
16	2019 Q3 Tax Preparation	Accounting	Richard	Bandalone	25
17	2019 Q3 Tax Preparation	Accounting	Tom	Caruthers	50
18	2019 Q4 Marketing Plan	Sales and Marketing	Ken	Evans	75
19	2019 Q4 Marketing Plan	Sales and Marketing	Ken	Numoto	55
20	2019 Q4 Marketing Plan	Sales and Marketing	Linda	Granger	55
21	2019 Q4 Marketing Plan	Sales and Marketing	Mary	Jacobs	30
22	2019 Q4 Portfolio Analysis	Finance	Ken	Evans	40
23	2019 Q4 Portfolio Analysis	Finance	Mary	Abernathy	45
24	2019 Q4 Portfolio Analysis	Finance	Richard	Bandalone	20
25	2019 Q4 Portfolio Analysis	Finance	Tom	Caruthers	45
26	2019 Q4 Production Plan	Production	Ken	Evans	50
27	2019 Q4 Production Plan	Production	Ken	Numoto	50
28	2019 Q4 Production Plan	Production	Mary	Jacobs	30
29	2019 Q4 Production Plan	Production	Mary	Smith	75
30	2019 Q4 Production Plan	Production	Tom	Jackson	75

Figure 1: View named ProjectInfoView.

2 Stored Procedure ProjectEmpSearch

Write a stored procedure ProjectEmpSearch that takes the project name as the input and returns the first name, last name, and hours worked of the employees who worked on the project by using ProjectInfoView. Call the procedure using the project name '2019 Q4 Marketing Plan'. Attach the screenshot of the procedure execution result in the report.

	FirstName	LastName	HoursWorked
1	Mary	Jacobs	30
2	Ken	Evans	75
3	Ken	Numoto	55
4	Linda	Granger	55

Figure 2: Stored procedure ProjectEmpSearch executed with parameter '2019 Q4 Marketing Plan':

3 Function dbo.ProjectCost

Write a function `dbo.ProjectCost` that takes the project name and hourly rate as the input and returns the project labor cost (multiply the hourly rate by the total hours worked of employees on the project), by using `ProjectInfoView`. Use an SQL statement to call the function to display the labor cost of each project with 37.50 as the hourly rate. Give an appropriate column name to the computed results and remove duplicate rows if applicable. Attach the screenshot of the function call result in the report.



ProjectName	HoursWorked	LaborCost
2019 Q4 Marketing Plan	215	8,062.5

Figure 3: Function `dbo.ProjectCost` with parameters 2019 Q4 Marketing Plan and 37.50