

## DAY 2-COUNTDOWN TO SQL MASTERY: 5-DAY CHALLENGE

**PROJECT NAME-**"SOFTWARE SOLUTIONS: PROJECT DELIVERY & REVENUE ANALYSIS."

### TASK 1: Project details with client info:

- Display project\_name, client\_name, and industry for all projects.

main DAY1 DAY2 x

Limit to 1000 rows

```

1  -- Project details with client info:
2  • SELECT p.project_name, c.client_name, c.industry
3  FROM Projects p
4  INNER JOIN Clients c ON C.client_id = p.client_id
5  ORDER BY c.client_name;
6
7  -- Total revenue per client
8  • SELECT c.client_name, sum(s.revenue) as total_rever

```

Result Grid | Filter Rows: | Export: | Wrap Cell

	project_name	client_name	industry
▶	Autonomous Driving Software	AutoDrive Systems	Automotive
	Predictive Maintenance Software	AutoDrive Systems	Automotive
	Online Learning Module	EduTech Group	Education
	Student Management System	EduTech Group	Education
	Investment Analytics Tool	FinanceFlow Ltd.	Finance
	Fraud Detection System	FinanceFlow Ltd.	Finance
	Mobile Banking App	FinanceFlow Ltd.	Finance
	AI-Powered CRM System	Global Innovations Inc.	Technology
	Supply Chain Optimization	Global Innovations Inc.	Technology
	Farm Management App	GreenHarvest Foods	Agriculture
	Telemedicine Platform	MediCare Solutions	Healthcare
	Patient Portal Upgrade	MediCare Solutions	Healthcare
	E-commerce Redesign	RetailLink Corp.	Retail
	Personalized Marketing Engine	RetailLink Corp.	Retail
	POS System Integration	RetailLink Corp.	Retail

### TASK 2: Total revenue per client:

Calculate the total revenue generated from each client\_name. Order the results by total revenue in descending order.

```

7  -- Total revenue per client
8  • SELECT c.client_name, sum(s.revenue) as total_revenue
9  FROM Sales s
10 inner join Clients c ON c.client_id= s.client_id
11 GROUP BY client_name
12 ORDER BY total_revenue
13
14 -- Average project delivery rating by industry:

```

Result Grid | Filter Rows: | Export: | Wrap Cell Conte

	client_name	total_revenue
▶	GreenHarvest Foods	80000.00
	EduTech Group	190000.00
	RetailLink Corp.	325000.00
	Global Innovations Inc.	360000.00
	MediCare Solutions	390000.00
	AutoDrive Systems	550000.00
	FinanceFlow Ltd.	665000.00

**Task 3: Average project delivery rating by industry:**

What is the average delivery\_rating for projects in each industry?

```

14  -- Average project delivery rating by industry:
15  SELECT c.industry,AVG(p.delivery_rating) as Avg_rating
16  FROM Clients c
17  INNER JOIN Projects p ON p.client_id=c.client_id
18  group by c.industry
19  ORDER BY Avg_rating DESC
20

```

Result Grid		
	Filter Rows:	Export: Wrap Cell Content:
industry	Avg_rating	
Technology	5.0000	
Retail	5.0000	
Healthcare	4.0000	
Finance	4.0000	
Automotive	4.0000	
Education	3.0000	
Agriculture	NULL	

Note- I don't remove NULL value because I want to show all industry with or without rating

**TASK 4: Sales performance by sales representative:**

Show the first\_name, last\_name of sales representatives and their total revenue from 'Won' deals.

```

21  -- Sales performance by sales representative
22  SELECT e.first_name,e.last_name,SUM(s.revenue) AS TOTAL_REVENUE
23  FROM Employees e
24  inner join Sales s ON s.sales_rep_id=e.employee_id
25  WHERE s.deal_status="won"
26  GROUP BY e.first_name,e.last_name
27  ORDER BY TOTAL_REVENUE

```

Result Grid		
	Filter Rows:	Export: Wrap Cell Content:
first_name	last_name	TOTAL_REVENUE
Grace	Moore	600000.00
Bob	Williams	715000.00
David	Miller	1060000.00

**TASK 5 : Projects over budget:**

List project\_name, budget, and actual\_cost for projects where actual\_cost exceeded budget.

```

30  SELECT project_name, budget, actual_cost
31  FROM Projects
32  WHERE budget < actual_cost
33  ORDER BY project_name

```

Result Grid			
Filter Rows: <input type="text"/>			
Export:			
	project_name	budget	actual_cost
▶	Autonomous Driving Software	300000.00	310000.00
	Mobile Banking App	190000.00	195000.00
	Online Learning Module	90000.00	95000.00
	Patient Portal Upgrade	130000.00	135000.00
	Telemedicine Platform	200000.00	210000.00

**TASK 6: Clients with multiple projects:**

Find client\_name and the number of projects they have, but only for clients with more than one project.

```

35  -- Clients with multiple projects means client having more than 1 project
36  SELECT Count(p.project_name) AS counting , c.client_name
37  FROM Projects p
38  INNER JOIN Clients c ON c.client_id = p.client_id
39  GROUP BY c.client_name
40  HAVING Count(p.project_name) >= 2
41  ORDER BY counting DESC
42

```

Result Grid		
Filter Rows: <input type="text"/>		
Export:		
Wrap Cell Content:		
	counting	client_name
▶	3	RetailLink Corp.
	3	FinanceFlow Ltd.
	2	Global Innovations Inc.
	2	MediCare Solutions
	2	EduTech Group
	2	AutoDrive Systems