

AGENDA

- What is Insurance?
- Why Analytics matter?
- KPI List
- Excel
- Power BI
- Tableau
- MySQL
- Recommendations and Action Plan
- Conclusion

INSURANCE

What is Insurance?

Insurance is an agreement between an individual policy (or a business) and an insurance company. Under this agreement, the policy holder pays premiums to the insurer in exchange for financial compensation in the event of a covered incident.

The core components that make up most insurance policies are the premium, deductible, and policy limits.

Why Analytics matter?

With increasing market competition and evolving customer needs, leveraging data analytics is no longer optional—it's essential. Insurance companies rely heavily on data to optimize sales, improve customer retention, and drive profitability.

Through this presentation, we'll uncover trends, identify challenges, and discuss actionable strategies that can help us maximize efficiency and revenue.

KPI List

1. Number of Invoice by Account Executive.

2. Yearly Meeting Count.

3.1.Cross-Target, Achievement, New.

3.2. New-Target, Achievement, New.

3.3. Renewal-Target, Achievement, New.

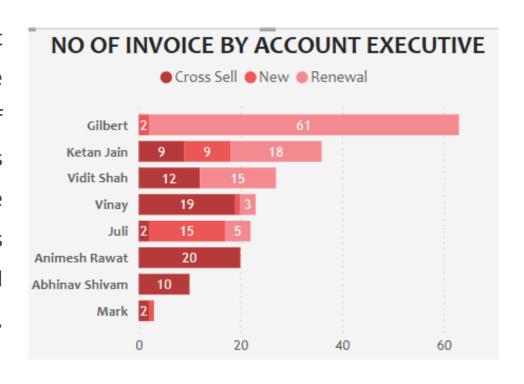
4. Stage Funnel by Revenue.

5. Number of meeting By Account Executive.

6.Top Open Opportunity.

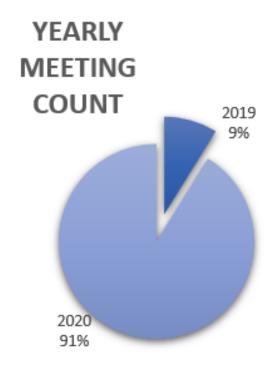
KPI 1: Number of Invoice by Account Executive

In insurance analysis, tracking the number of invoices by account executive helps measure productivity and sales performance. The number of invoices is influenced by client load, the types of insurance products, sales activity, renewals, and claims processing. To analyze, track the number of invoices per executive over a set of period. Comparing invoice numbers across executives reveals relative productivity. The key data needed includes account executive IDs, client information, invoice details, and policy information.



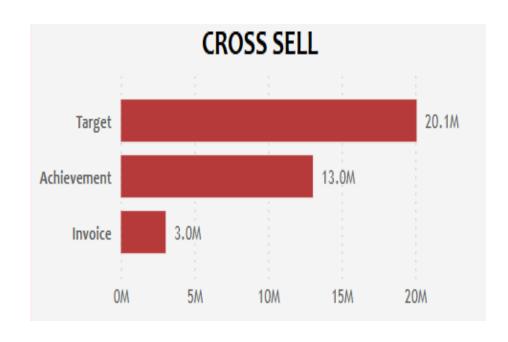
KPI 2: Yearly Meeting Count

In insurance analysis, yearly meeting counts track executive-client engagement. These meetings may involve sales, renewals, claims, or general check-ins. The count reflects the level of relationship management and business development. It is influenced by client needs, product complexity, and sales goals. Analyzing this helps evaluate account executive productivity and client satisfaction. Data required includes meeting dates and count of global attendees.



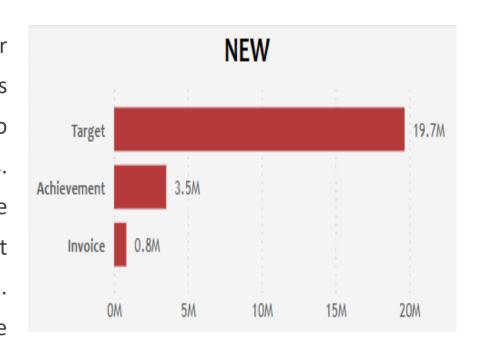
KPI 3.1 – Cross Sell Target, Achievement, New

In insurance analysis, cross-sell targets focus on encouraging account executives to sell additional products to existing clients. The goal is to increase revenue and deepen client relationships. Achieving the cross-sell target means meeting or exceeding the set sales goals for these additional products. Analyzing this data helps assess account executive performance, identify opportunities, and improve sales strategies. Key metrics include target goals, achieved sales and invoice sales of the number of cross-sell clients or policies.



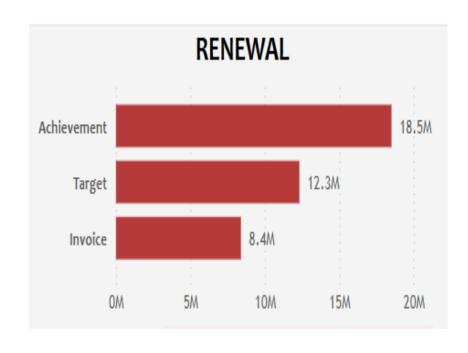
KPI 3.2 – New Target, Achievement, New

In insurance analysis, the "new-target" represents sales goals for acquiring new clients or policies. Achieving this target means meeting or exceeding the goal for new business. "New" refers to newly acquired policies or clients, not renewals or cross-sells. Tracking this metric helps evaluate account executive performance, their efforts for growth and market expansion. It provides insights into sales effectiveness and market expansion. Key data includes target goals, achieved sales, invoice sales of the number of new clients or policies.



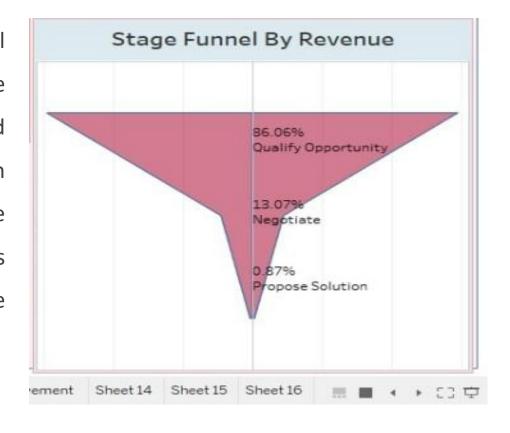
KPI 3.3 – Renewal Target, Achievement, New

In insurance analysis, the "renewal-target" refers to the goal set for renewing existing policies with clients. Achieving this target means successfully renewing a set percentage or number of policies. Tracking renewal-targets helps measure account executives' ability to maintain client retention and stable revenue streams. Analyzing this metric helps assess performance in client loyalty and retention strategies. Key data includes renewal goals, achieved renewals, and invoiced renewals of the additional policies sold.



KPI 4: Stage Funnel by Revenue

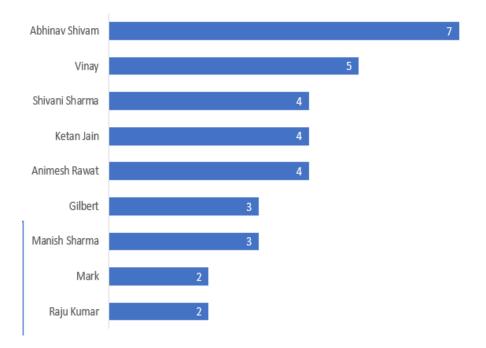
In insurance analysis, the stage funnel by revenue tracks potential sales through stages based on revenue. Stages typically include Lead Generation, Qualification, Proposal, Negotiation, and Closure. Revenue is measured at each stage to identify conversion rates and potential earnings. This funnel helps detect the bottlenecks and forecast sales more accurately. It also allows prioritizing high-value opportunities. Key metrics include revenue per stage and total revenue potential.



KPI 5: No of meeting By Account Executive

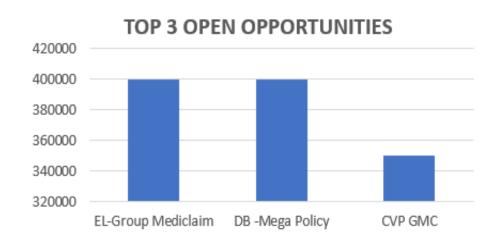
In insurance analysis, the number of meetings by account executives tracks client interactions such as sales, renewals, and claims discussions. It reflects account executive engagement and relationship-building efforts. A higher meeting count typically indicates stronger client relationships and more business opportunities. This metric helps evaluate productivity and identify areas for improvement. Monitoring meetings also aid in optimizing sales strategies. Key data includes Account Executives and meeting frequency.

NO OF MEETING BY ACCOUNT EXECUTIVE



KPI 6: Top Open Opportunity

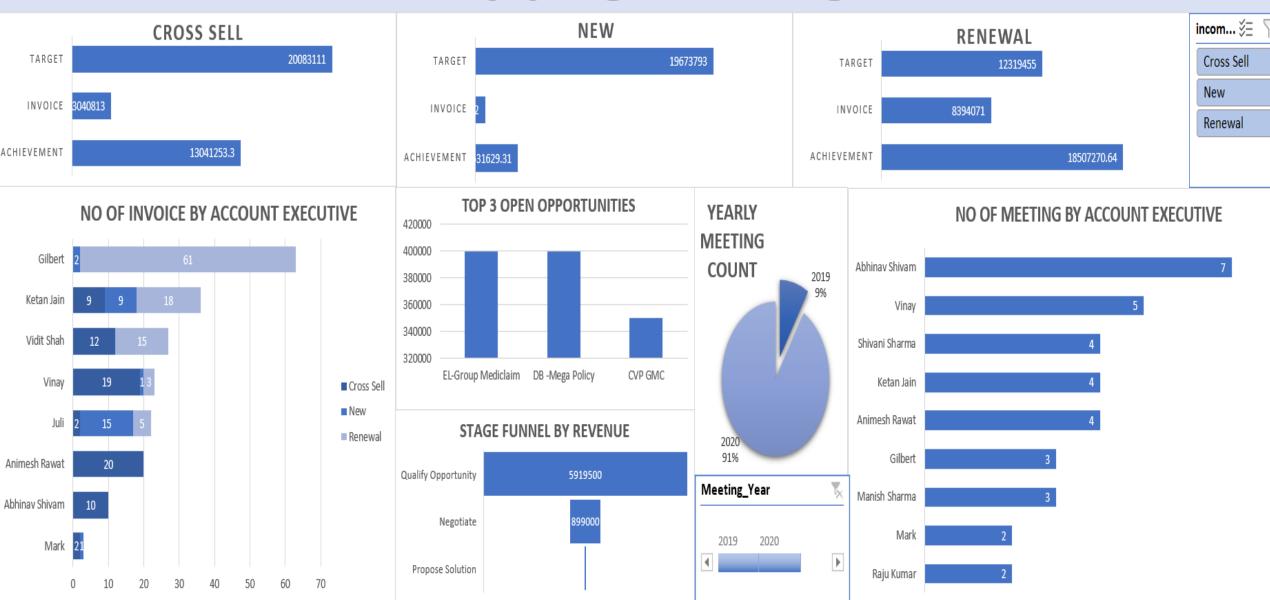
In insurance analysis, top open opportunities are high-value, yet-to-be-closed leads or deals. These opportunities are prioritized based on factors like revenue potential and client interest. Tracking them helps account executives focus on the most promising prospects. Analyzing these opportunities identifies deals nearing closure or requiring more attention. This helps in forecasting and resource allocation. Key metrics include opportunity value, Sum of Revenue and filtering at the Stage level.





EXCEL DASHBOARD

INSURANCE ANALYTICS



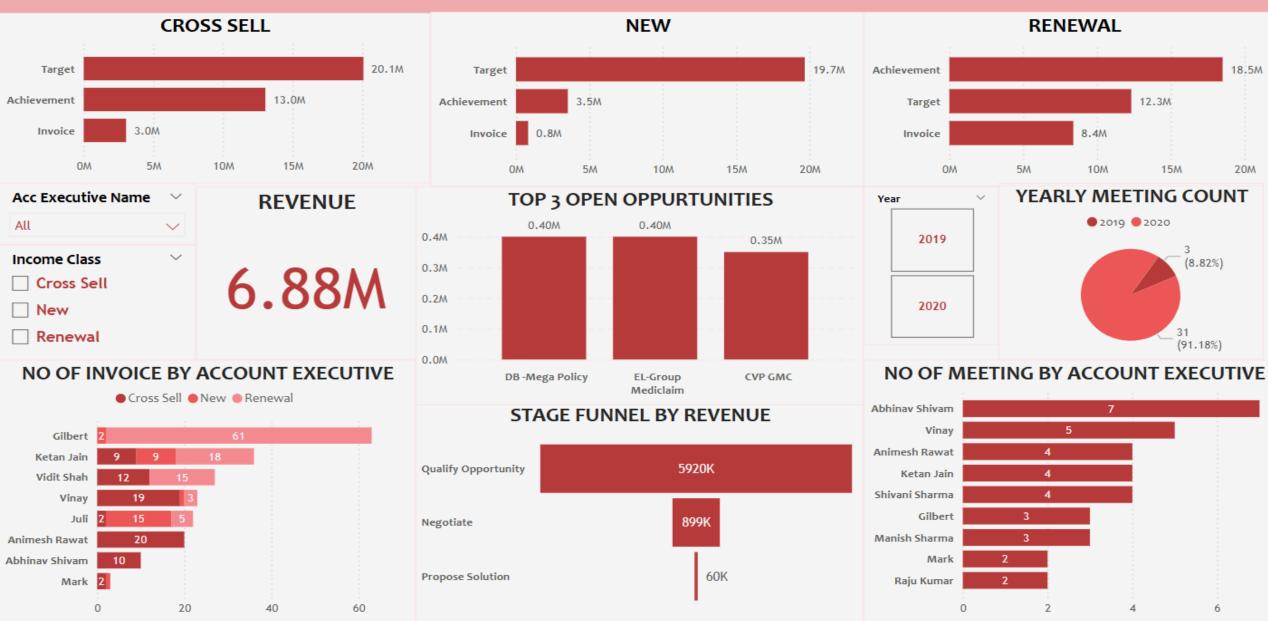
Challenges faced

- Understanding the terminology of Insurance (Target, Achievement, Invoice)
- Data type conversion in the process of creating calculated measures
- Creation of Funnel chart with pivot



POWER BI DASHBOARD

INSURANCE ANALYTICS



Challenges faced

- Choosing method that works for the Data Import
- Retention of datatypes while importing the data
- Data cleaning of Brokerage table
- Creation of calculated tables and measures (DAX)

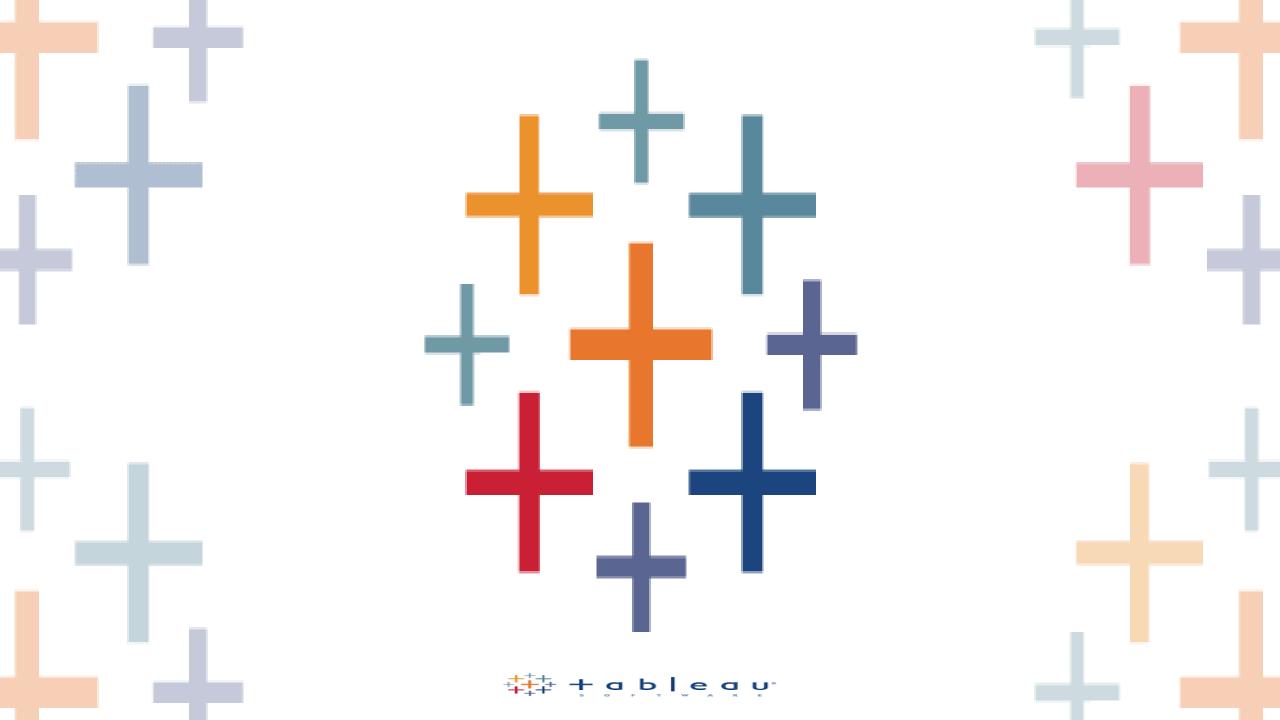
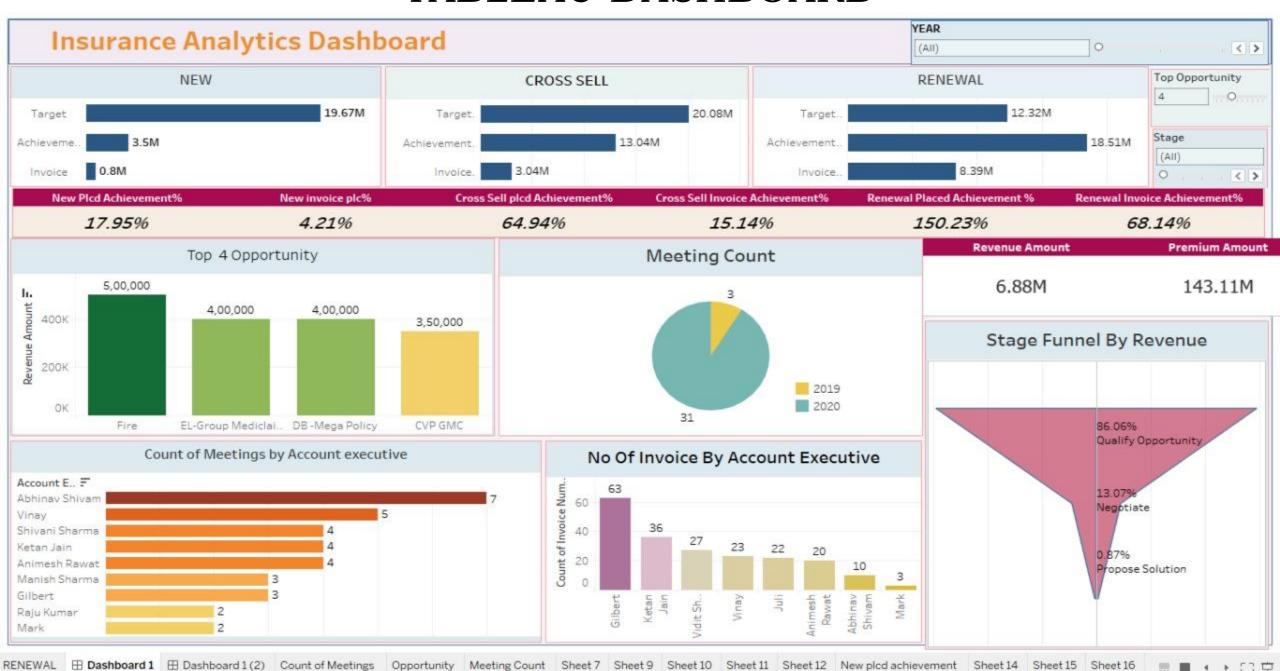


TABLEAU DASHBOARD



Challenges faced

- Inability of Tableau public to connect to database Tableau Desktop is must
- For this data and calculated fields, faced difficulty in creation of bar charts
- Advance Funnel Chart
- Formatting the Tableau Dashboard



KPI 1: Number of Invoice by Account Executive

QUERY

```
-- 1-No of Invoice by Accnt Exec

2 • SELECT

Account Executive',

COUNT(CASE WHEN income_class = 'New' THEN 1 END) AS 'New',

COUNT(CASE WHEN income_class = 'Renewal' THEN 1 END) AS 'Renewal',

COUNT(CASE WHEN income_class = 'Cross Sell' THEN 1 END) AS 'Cross Sell',

COUNT(invoice_number) AS 'number_of_invoices'

FROM invoice

GROUP BY 'Account Executive'

order by 'number_of_invoices' desc;
```

	Account Executive	New	Renewal	Cross Sell	number_of_invoices
١	Gilbert	2	61	0	63
	Ketan Jain	9	18	9	36
	Vidit Shah	0	15	12	27
	Vinay	1	3	19	23
	Juli	15	5	2	22
	Animesh Rawat	0	0	20	20
	Abhinav Shivam	0	0	10	10
	Mark	1	0	2	3

KPI 2: Yearly Meeting Count

QUERY

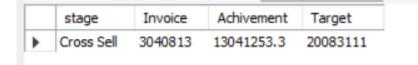
-- 2-Yearly Meeting Count SELECT year(meeting_date) as Year, count(year(meeting_date)) as MeetingCount from meeting group by year(meeting_date);

nt	MeetingCount	Year	
	3	2019	•
	31	2020	
	31		١

KPI 3.1 – Cross Sell Target, Achievement, New

QUERY

```
-- 3.1Cross Sell--Target, Achive, new
       SELECT 'Cross Sell' AS stage,
19
           COALESCE(invoice.total cross, 0) AS Invoice,
           COALESCE(unified.total cross, 0) AS Achivement,
20
           COALESCE(budget.cross_sell_budget, 0) AS Target
21
                -- Subquery for Invoice Data
22
           (SELECT SUM(amount) AS total cross FROM invoice WHERE income class = 'Cross sell') AS invoice
23
           CROSS JOIN -- Subquery for Unified Brokerage and Fees Data
24
           (SELECT SUM(amount) AS total cross
26
            FROM (
27
               SELECT income class, SUM(amount) AS amount FROM brokerage GROUP BY income class
               UNION ALL
28
               SELECT income_class, SUM(amount) AS amount FROM fees GROUP BY income_class
29
30
             ) unified
            WHERE income class = 'Cross sell') AS unified
31
           CROSS JOIN -- Subquery for Budget Data
32
           (SELECT SUM('Cross sell bugdet') AS cross sell budget FROM 'individual budgets') AS budget;
33
```



KPI 3.2 – New Target, Achievement, New

QUERY

```
35
         -- 3.2New-Target, Achive, new
       SELECT 'New' AS stage,
           COALESCE(invoice.total new, 0) AS Invoice,
37
           COALESCE(unified.total new, 0) AS Achievement,
38
           COALESCE(budget.new_budget, 0) AS Target
39
       FROM -- Subquery for Invoice Data
41
           (SELECT SUM(amount) AS total new FROM invoice WHERE income class = 'New') AS invoice
            CROSS JOIN -- Subquery for Unified Brokerage and Fees Data
           (SELECT SUM(amount) AS total_new
            FROM (SELECT income class, SUM(amount) AS amount FROM brokerage GROUP BY income class
               UNION ALL
               SELECT income_class, SUM(amount) AS amount FROM fees GROUP BY income_class
            ) unified
48
            WHERE income class = 'New') AS unified
           CROSS JOIN -- Subquery for Budget Data
           (SELECT SUM('New Budget') AS new budget
            FROM 'individual budgets') AS budget;
```

	stage	Invoice	Achievement	Target
•	New	827822	3531629.309999999	19673793

KPI 3.3 – Renewal Target, Achievement, New

QUERY

```
-- 3.3Renewal-Target, Achive, new
       SELECT 'Renewal' AS stage,
           COALESCE(invoice.total renewal, 0) AS Invoice,
           COALESCE(unified.total renewal, 0) AS Achievement,
           COALESCE(budget.renewal budget, 0) AS Target
57
       FROM -- Subquery for Invoice Data
           (SELECT SUM(amount) AS total renewal
            FROM invoice WHERE income class = 'Renewal') AS invoice
           CROSS JOIN -- Subquery for Unified Brokerage and Fees Data
           (SELECT SUM(amount) AS total renewal
            FROM (SELECT income class, SUM(amount) AS amount FROM brokerage GROUP BY income class
               UNION ALL
               SELECT income class, SUM(amount) AS amount FROM fees GROUP BY income class
65
            ) unified
66
            WHERE income class = 'Renewal') AS unified
67
           CROSS JOIN -- Subquery for Budget Data
68
           (SELECT SUM('Renewal Budget') AS renewal budget FROM 'individual budgets') AS budget;
```

	stage	Invoice	Achievement	Target
•	Renewal	8394071	18507270.640000015	12319455

KPI 4: Stage Funnel by Revenue

QUERY

-- Q4. Stage Funnel by Revenue select stage , sum(revenue_amount) from opportunity group by stage;

	stage	sum(revenue_amount)
١	Qualify Opportunity	5919500
	Negotiate	899000
	Propose Solution	60000

KPI 5: No of meeting By Account Executive

QUERY

```
    Q5. No of meeting By Account Exe
    select 'Account Executive', count(meeting_date)
    from meeting
    group by 'Account Executive';
```

	Account Executive	count(meeting_date)
•	Abhinav Shivam	7
	Vinay	5
	Animesh Rawat	4
	Ketan Jain	4
	Gilbert	3
	Shivani Sharma	4
	Manish Sharma	3
	Raju Kumar	2
	Mark	2

KPI 6: Top Open Opportunity

QUERY

```
-- 6-Top Open Opportunity
select opportunity_name, max(revenue_amount) as Revenue from opportunity
group by opportunity_name
order by revenue desc
limit 4;
```

	opportunity_name	Revenue
•	Fire	500000
	EL-Group Mediclaim	400000
	DB -Mega Policy	400000
	CVP GMC	350000

Challenges faced

- Selection of the type of Join to be used to retrieve data as per requirement
- At the time of data import,
 change in datatype of a column into the date datatype requires formatting inorder to import the data properly

Recommendations & Action Plan

- •Boost Invoice Generation: New business invoices need to increase to match target achievements.
- •Leverage Top Performers' Strategies: Sharing best practices from high-performing executives.
- •Close High-Potential Deals: Focus on the top 3 opportunities to accelerate growth.
- •Enhance Negotiation Success: Strengthening the conversion from negotiation to closure.
- •Maintain High Meeting Engagement: Continue the momentum of increased client meetings to drive future revenue.

CONCLUSION

In summary, while we are seeing strong achievement in renewals and cross-sell, there are gaps in new business invoicing and final deal closure.

By focusing on key opportunities and leveraging the strengths of top performers, we can optimize our revenue performance.

