

# INSURANCE ANALYTICS

PROJECT: P669

### Team members are:

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### Domain: Insurance Analytics

Modules:
MS Excel
Power Bi
MySQL
Tableau



### **Project Goal & Insurance Analytics**

Introduction
Dataset Description
Data Schema
Kpi Analysis
Dashboard Design
Recommendation
Conclusion
Closure

## Project Goal

Branch dashboard to discuss New and renewal business number with each branch. This dashboard will be discussed between Corporate team and Individual branch heads.

Discuss performance metrics in the branch.

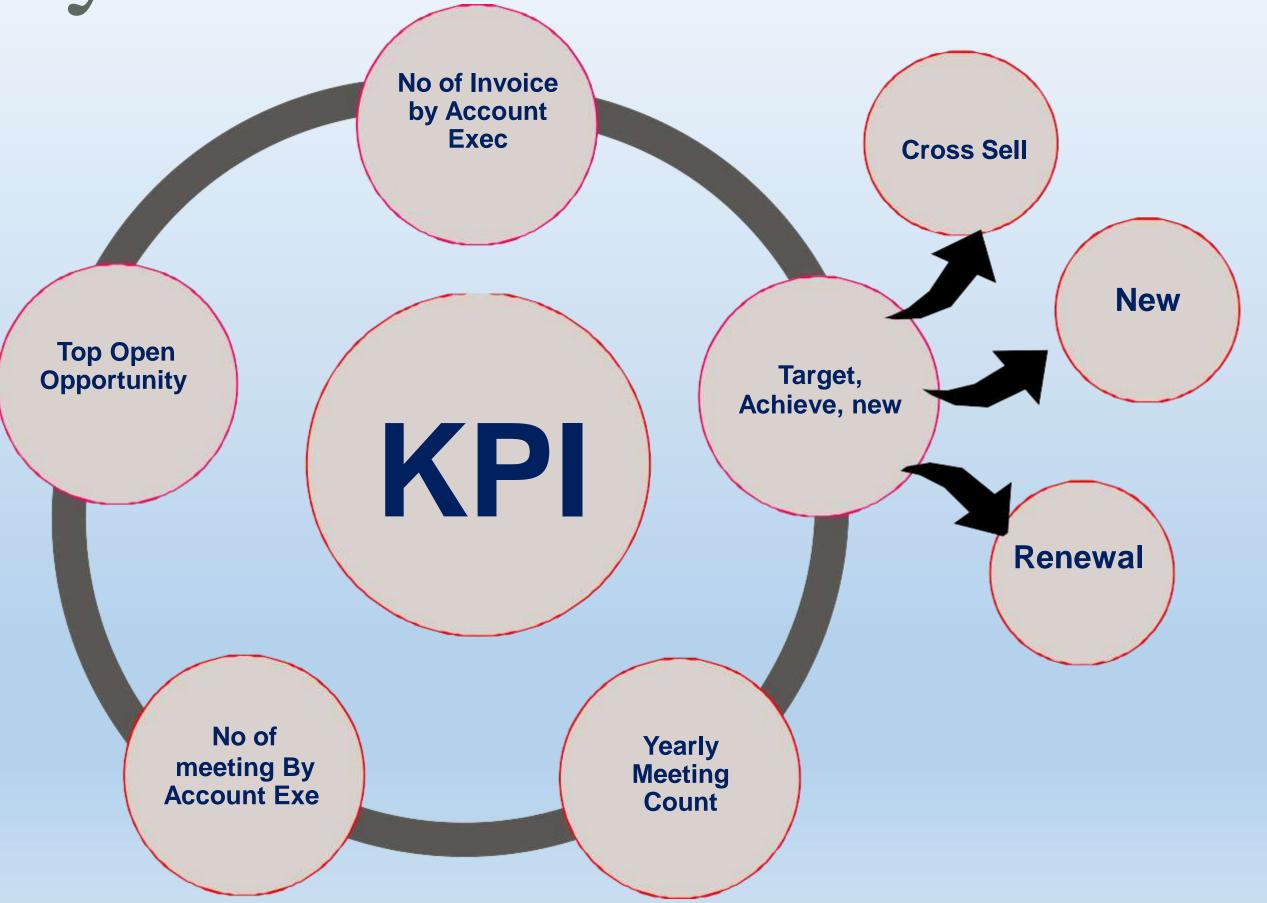
**Overall performance summary** 

**Detailed branch performance** 

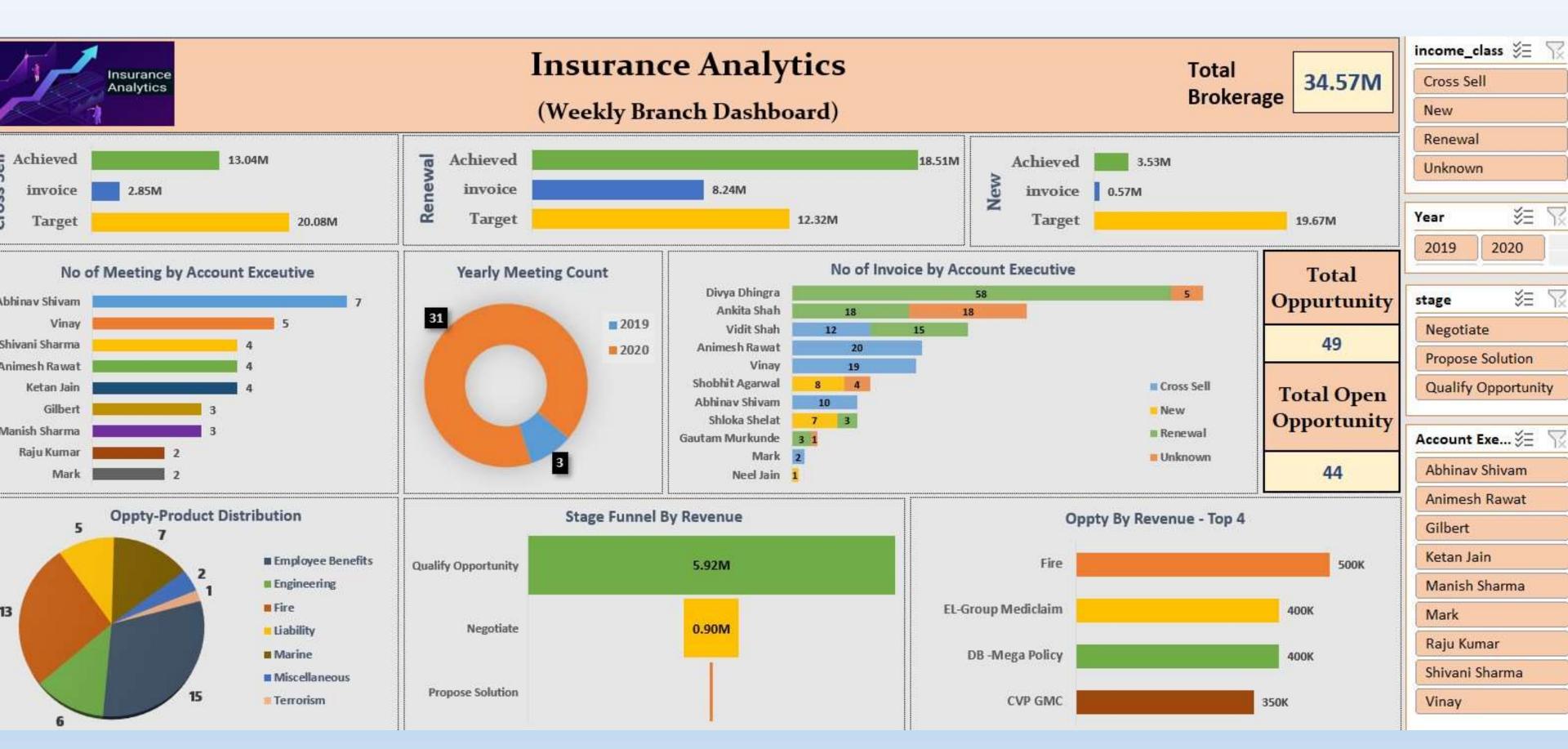
- Key insights and action items
- Summary of new ,cross sell and renewal business
- numbers for the branch



KPI Analysis



## Excel Dashboard

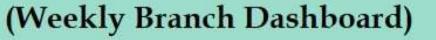


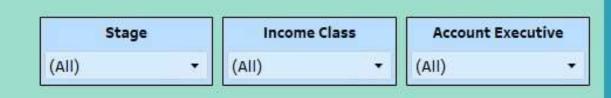
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## Tableau Dashboard



### **Insurance Analytics**





14.21%

2.90%





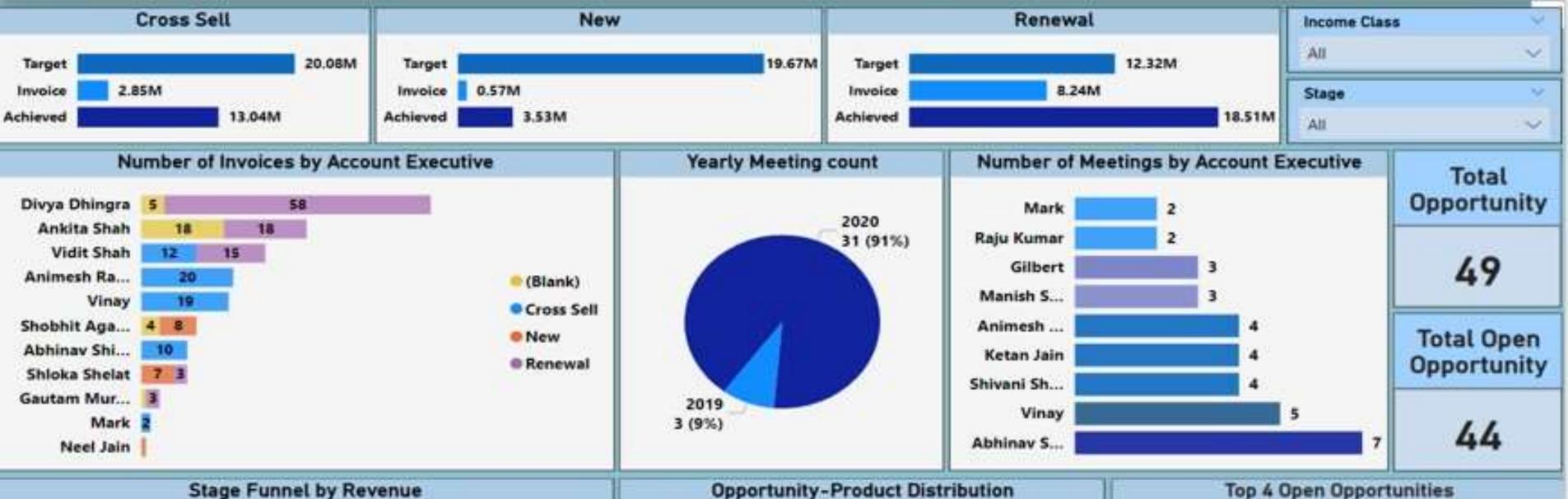


# POWER-BIDASHBOARD

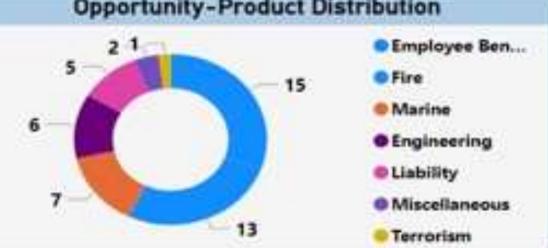


### Insurance Analytics











Marcol Omorios

MySQL Queries
SELECT Account_Executive,  SUM(CASE MMEN income_class = "Dross Sell" THEN I ELSE # END) as Cross_Sell_count,  SUM(CASE MMEN income_class = "New" THEN I ELSE # END) as New_count,  SUM(CASE MMEN income_class = "Recount" THEN I ELSE # END) as Renewal_count,  SUM(CASE MMEN income_class = "THEN I ELSE # END) as NULL_Invoice_count,  COUNT(invoice_number) as Invoice_count  FROM invoice  GROUP BY Account_Executive  ORDER BY Invoice_count desci
## KPI 2 - Yearly Meeting Count  SELECT YEAR(meeting_date) as Meeting_Year, COUNT(*) as Meeting_cou  , (Select count(*) from meeting) as Total_count  FROM meeting  GROUP BY Meeting_Year;
<pre>## KPI 4 - Stage funnel by Revenue SELECT stage, SUM(revenue_amount) as Revenue_amt FROM opportunity GROUP BY stage ORDER BY Revenue_amt desc;</pre>
## KPI 5 - Number of Meetings by Account Executive  SELECT Account_Executive, COUNT(*) as Meeting_count  FROM meeting

GROUP BY Account\_Executive

ORDER BY Meeting\_count desc;

, ,						
Account_Executive	Cross_Sell_count	New_count	Renewal_count	NULL_invoice_count	Invoice_count	
Divya Dhingra	0	0	58	5	63	
Ankita Shah	0	0	18	18	36	
ridit Shah	12	0	15	0	27	
Animesh Rawat	20	0	0	0	20	
/inay	19	0	0	0	19	
Shobhit Agarwal	0	8	0	4	12	
ihloka Shelat	0	7	3	0	10	
Abhinay Shiyam	10	0	0	0	10	
Sautam Murkunde	0	0	3	1	4	
fark	2	0	0	0	2	
leel Jain	0	1	0	0	1	
Meeting_Year Meeting_count		## KPI 6 - Top 5 Opportunity by Revenue  SELECT opportunity_mame, SIP(revenue_amount) as Revenue_amt				
2019	3	FROM opportunity				
2020 31		GROUP BY opportunity_name  GROER BY Revenue_amt desc				
stage	Revenue_amt	ADMIT 5; ## Opportunity - Pro	duct distribution			

	stage	Revenue_amt	## Opportunity - Product distribution				
	Qualify Opportunity	5919500	COUNT(Account_Executive) A5 oppty_count,				
	Negotiate	899000	CONCAT(FORMAT((CONNT(Account_Executive) * 100.0 / SUM(CONNT(Account_Executive)) OVER ()), 2), '5')				
Propose Solution		60000	AS Total_percent FROM opportunity  GROUP BY product_group;				
	Account Executive	Meeting count	Annal annua annua Tatal annua				

Account_Executive	Meeting_count		Davissia ses	product_group	oppty_count	Total_percen
Abhinav Shivam	7	opportunity_name	Revenue_amt	The second second second	-	
Vinay	5	Fire	500000	Employee Benefits	15	30.61%
Animesh Rawat	4	115	300000	Marine	7	14.29%
Ketan Jain	4	EL-Group Medidaim	400000	Miscellaneous	2	4.08%
Shivani Sharma	4	DR Mana Policy	400000	Liability	5	10.20%
Gibert	3	DB -Mega Policy	700000	212		11(4)(1)
Manish Sharma	3	CVP GMC	350000	Fre	13	26.53%
Raju Kumar	2	The second secon	100 B	Engineering	6	12.24%
Mark	2	FM-Group Medidaim	300000	Terrorism	1	2.04%

# MYSQL QUERIES

```
# Procedure
DELIMITER //
CREATE PROCEDURE Data by IncomeClass (IN IncomeClass varchar(20))
BEGIN
    DECLARE Budget_val double;
## Target, Invoice, Achieved for Cross Sell, New, Renewal
    SET @Cross_Sell_Target = (SELECT SUM(Cross_Sell_Budget) FROM individual_budgets);
    SET @New Target = (SELECT SUB(New Budget) FROM individual budgets);
   SET @Renewal Target = (SELECT SUM(Renewal Budget) FROM individual budgets);
    SET @Invoice_val = (SELECT SUM(Amount) FROM invoice WHERE income_class = IncomeClass);
    SET @Achieved_val = ((SELECT SUM(Amount) FROM brokerage WHERE income_class = IncomeClass) +
                                (SELECT SUM(Amount) FROM fees WHERE income_class = IncomeClass));
    IF IncomeClass = "Cross Sell" THEN SET Budget_val = @Cross_Sell_Target;
        ELSEIF IncomeClass = "New" THEN SET Budget_val = @New_Target;
        ELSEIF IncomeClass = "Renewal" THEN SET Budget_val = @Renewal_Target;
        ELSE SET Budget val = 0;
    END IF:
## Percentage of Placed Achievement for Cross Sell, New, and Renewal
    SET @Placed achyment = (SELECT CONCAT(FORMAT((@Achieved_val / Budget_val)*100,2),'%'));
## Percentage of Invoice Achievement for Cross Sell, New, and Renewal
    SET @Invoice_achvment = (SELECT CONCAT(FORMAT((@Invoice_val / Budget_val)*100,2),'%'));
     SELECT IncomeClass, Format(Budget_val,0) as Target, Format(@Invoice_val,0) as Invoice,
            Format(@Achieved_val,2) as Achieved, @Placed_achvment as Placed_Achievement_Percentage,
            @Invoice_achvment as Invoice_Achievement_Percentage;
END//
```

```
# KPI 3 - Target, Invoice, Achieved, Placed Achyst percent,
# Invoice Achymt_percent by Income Class
# (Cross Sell, New, Renewal)
Delimiter ; //
CALL Data_by_IncomeClass('Cross Sell');
Delimiter ; //
CALL Data by IncomeClass('New');
Delimiter ; //
CALL Data_by_IncomeClass('Renewal');
                                    Placed Achievement Percentage - Unioice Achievement Percentage
Cross Sel
                 2,853,842 13,041,253.30 64,94%
                                  Placed Achievement Percentage - Envoice Achievement Percentage
IncomeClass
                                                        2,90%
                                   Placed Achievement Percentage - Invoice Achievement Percentage
```

## Conclusion

#### **New Policies**

Steady growth with a decent profit margin. Need to focus on increasing the growth rate

**Total**: 19.674 M **Profit**: 0.5698 M

**Revenue**: 3.5316 M

Profit Margin: 17.95%

**Growth Rate: 2.90%** 

**Cross-Sell Policies** 

High profitability and significant growth. Continue leveraging cross-selling opportunities.

**Total**: 20.083 M **Profit**: 2.854 M

Revenue: 13.04 M

Profit Margin: 64.94%

**Growth Rate:** 14.21% Renewal Policies

Exceptional performance in renewals with very high profitability and growth. Maintain this strong focus

**Total:** 12.32 M

**Profit:** 8.244 M

**Revenue:** 18.507 M

Profit Margin: 150.23%

**Growth Rate**: 66.92%



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# Recommendation

#### **Enhance Customer Service**

- Implement AI-driven chatbots for 24/7 customer support.
- Train staff on customer engagement and conflict resolution.

#### **Expand Product Offerings**

- Introduce new insurance products tailored to emerging markets.
- Bundle products for better value to customers.

#### Increase Sales and Retention

- Launch personalized marketing campaigns based on customer data.
- Introduce loyalty programs to reward long-term customers.

### Market Analysis and Adaptation

- Conduct market research to identify customer needs and preferences.
- Adjust strategies based on competitive analysis and market trends.

### **Employee Engagement**

- Foster a positive work environment to boost employee morale.
- Introduce employee recognition programs to retain top talent.

### **Enhance Operational Efficiency**

- Conduct regular training sessions for employees on new technologies.
- Team collaboration activities

7/4/2024



Thank You