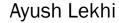
Shield Insurance Analysis

Virtual Internship Project



Agenda

01	Company Introduction	06	Insights
02	Objective	07	Recommendations
03	Resources		
04	Mockup Dashboard		
05	Dashboard		



Introduction

Shield Insurance is a growing insurance provider based in India, offering a diverse portfolio of products across life, health, and general insurance. The company serves both individual and corporate clients through direct sales channels and digital platforms.

Business Focus:

- Enhancing customer experience through data-driven decisionmaking
- Expanding policy offerings tailored to different age groups and needs
- Streamlining claims and settlement processes
- Leveraging technology for predictive analytics and sales performance

Objective

This Power BI dashboard is developed to help Shield Insurance make data driven decisions through the following reports created in Power BI:

Overview

Monitoring Key Performance Indicators like Revenue and Customers and understanding their behaviour across Time Period.

Sales Mode Analysis

Calculating Revenue and Customer Split by Sales Mode and understanding how many customers prefer what sales mode.

Age Group Analysis

Figuring out which Age Group generates the most amount of revenue and prefer what policies for their insurance.

Dataset

Provided in .csv format.

dim_customer

This table contains all the information about the customers.

dim_date

This table contains the dates at daily, monthly levels and week numbers of the year.

dim_policies

This table contains all policies data.

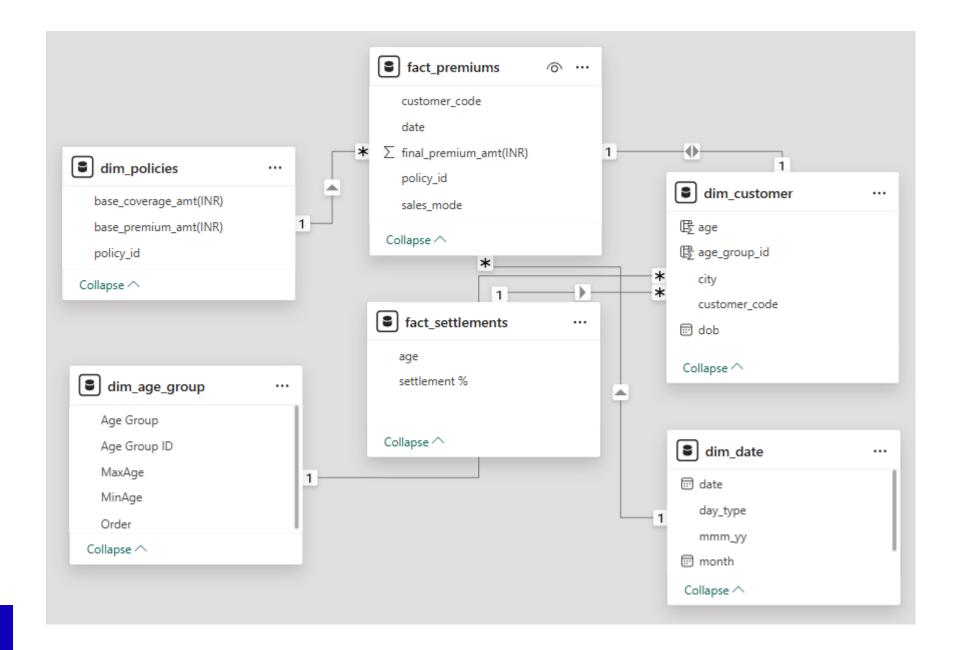
fact_premiums

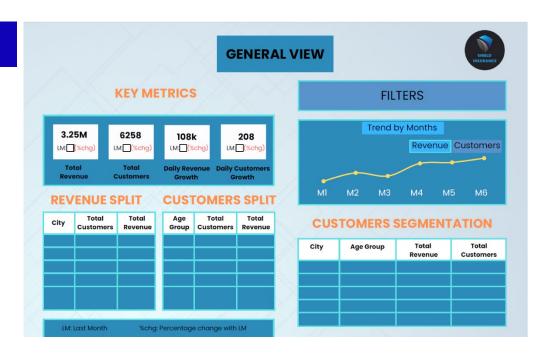
This table contains all information about policy orders.

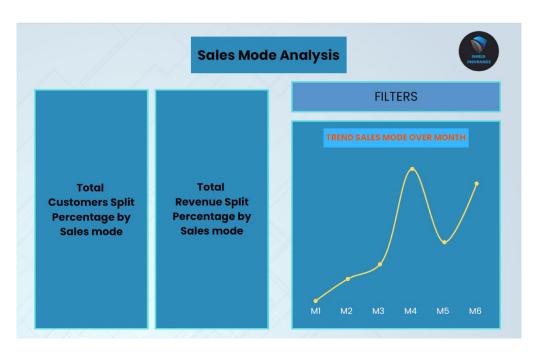
fact_settlements

This table contains information about policy settlement

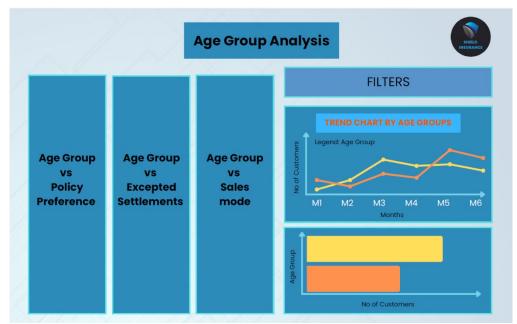
Data Modelling







Mockup Dashboard





Overview Analysis

In Dashboard



Overview

Sales Mode Analysis

Age Group Analysis 1

Age Group Analysis 2

Home

Abbreviations:

LM: Last Month Rev LM: Revenue LM



Total Revenue

989.25M~

Total Customers

26.84K~ vs LM: (Blank) (+Infinity%) Daily Revenue Growth

5.47M vs LM: (Blank) (+Infinity%)

Daily Customers Growth

148.29~

vs LM: (Blank) (+Infinity%)

Revenue Split

City	Total Customers	Total Revenue
Chennai	2966	106.31M
Delhi NCR	11007	401.57M
Hyderabad	4340	160.52M
Indore	2096	81.35M
Mumbai	6432	239.51M
Total	26841	989.25M

$\overline{}$					
-	\sim	/e	n		\sim
	-	/-			_
	-	-		v	_

Customers



Customer Split

Age Group	Total Customers	Total Revenue
18-24	2640	36.19M
25-30	3617	67.71M
31-40	11455	356.03M
41-50	4699	196.02M
51-65	2511	148.41M
65+	1919	184.89M
Total	26841	989.25M



Monthly Revenue

153.75 M!
vs LM: 263.84M (-41.73%)

Monthly Customers

Daily Revenue Growth

5.12 M!
vs LM: 8.51 M (-39.78%)

Daily Customers Growth

138.30!
vs LM: 228.42 (-39.45%)

For every metric Revenue declined rapidly in April 2023 possibly due to mass layoffs by major IT companies like Amazon and Meta that started in 2022 and extended into 2023 and also Global Inflation and recession fears



	Reve	enue Spl	it
City	Total Cu	ıstomers	Total Revenue
Chennai		2966	106.31M
Delhi NCR		11007	401.57M
Hyderabad		4340	160.52M
Indore		2096	81.35M
Mumbai		6432	239.51M
Total		26841	989.25M
			_
	Cust	omer Sp	lit
Age Group			lit Total Revenue
Age Group 18-24			
		stomers	Total Revenue
18-24		stomers 2640	Total Revenue 36.19M
18-24 25-30		2640 3617	Total Revenue 36.19M 67.71M
18-24 25-30 31-40		2640 3617 11455	36.19M 67.71M 356.03M
18-24 25-30 31-40 41-50		2640 3617 11455 4699	36.19M 67.71M 356.03M 196.02M
18-24 25-30 31-40 41-50 51-65		2640 3617 11455 4699 2511	36.19M 67.71M 356.03M 196.02M 148.41M

Highest Revenue generating region- DELHI NCR by Age Group- 31-40 as the region itself comprises many cities.



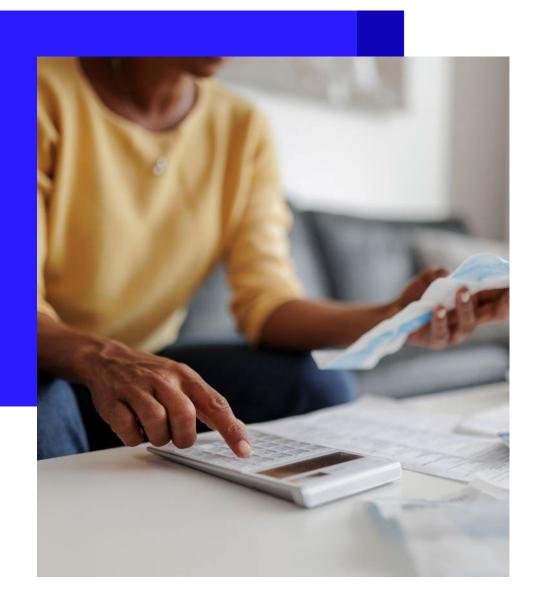


Revenue Split				
City	Total Customers	Total Revenue		
Chennai	2966	106.31M		
Delhi NCR	11007	401.57M		
Hyderabad	4340	160.52M		
Indore	2096	81.35M		
Mumbai	6432	239.51M		
Total	26841	989.25M		
		_		
	Customer Sp	lit		
Age Group	Customer Sp Total Customers			
Age Group				
	Total Customers	Total Revenue		
18-24	Total Customers 2640	Total Revenue 36.19M		
18-24 25-30	Total Customers 2640 3617	Total Revenue 36.19M 67.71M		
18-24 25-30 31-40	Total Customers 2640 3617 11455	36.19M 67.71M 356.03M		
18-24 25-30 31-40 41-50	Total Customers 2640 3617 11455 4699	36.19M 67.71M 356.03M 196.02M		

Highest Revenue generating city Mumbai by Age Group- 31-40. Mumbai as we know is the financial capital of India







Sales Mode Analysis

In Dashboard



Overview

Sales Mode Analysis

Age Group Analysis 1

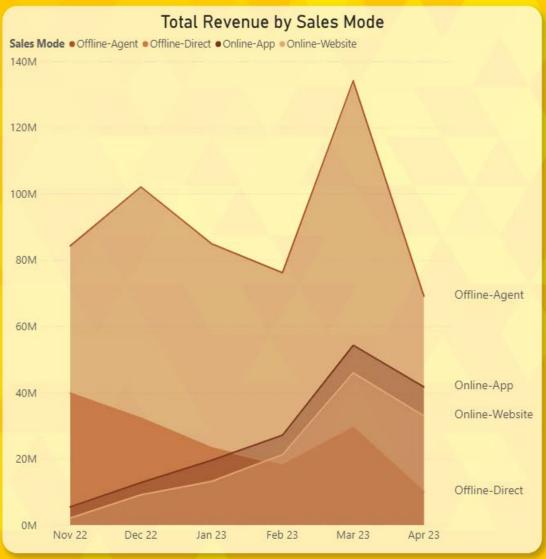
Age Group Analysis 2

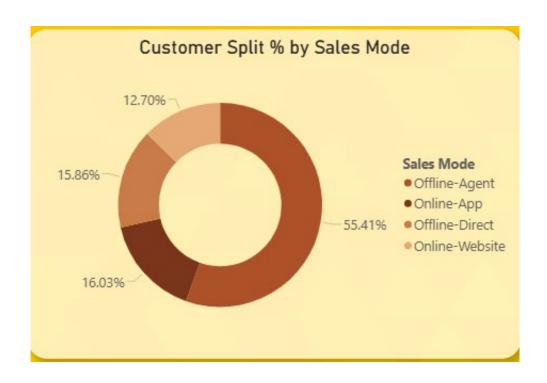
Home











Offline Agent is still the most preferred medium by Customers for their insurance related work.

Hence, Revenue generated by this medium is the highest.

There aren't many people who are technologically aware.

Hence, they prefer an agent to do their insurance for them.

Online Apps are the second most preferred medium by Customers for their insurance related work.

Online Website is the least preferred medium by Customers for their insurance related work.

Possible Reasons:

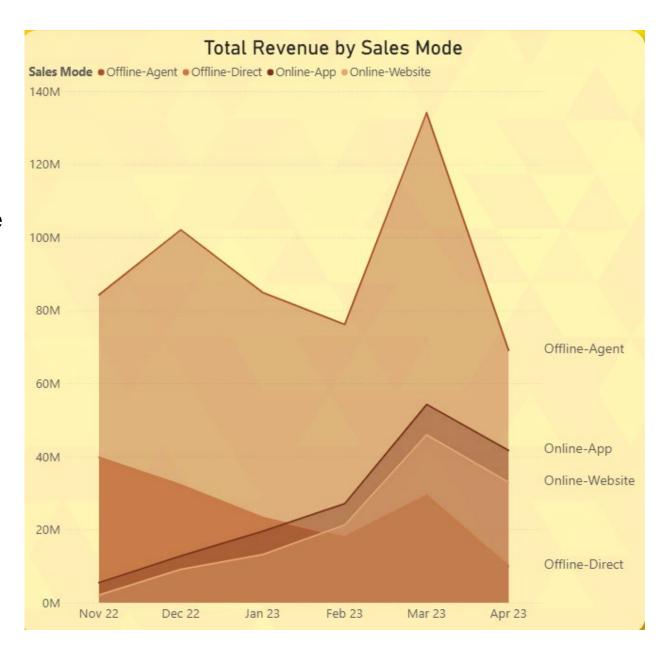
- Especially in countries like India, smartphone usage far outpaces desktop use.
- Many people either don't own laptops or don't regularly access websites on them.
- The app becomes their primary or only interface for digital transactions.
- Apps offer 1-click access, biometric login, and real-time notifications.
- Unlike websites, apps don't require a browser or repeated logins, making it much faster for users to check policies, pay premiums, or file claims.



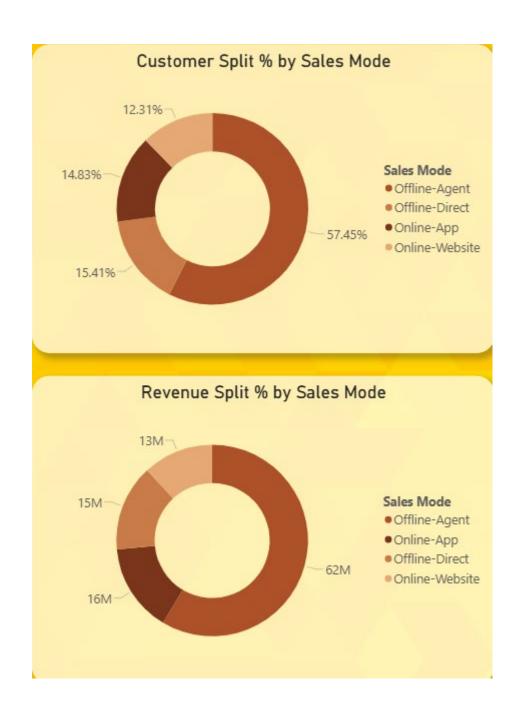
Offline Agent although a most preferred medium by customers started declining sharply in April 2023.

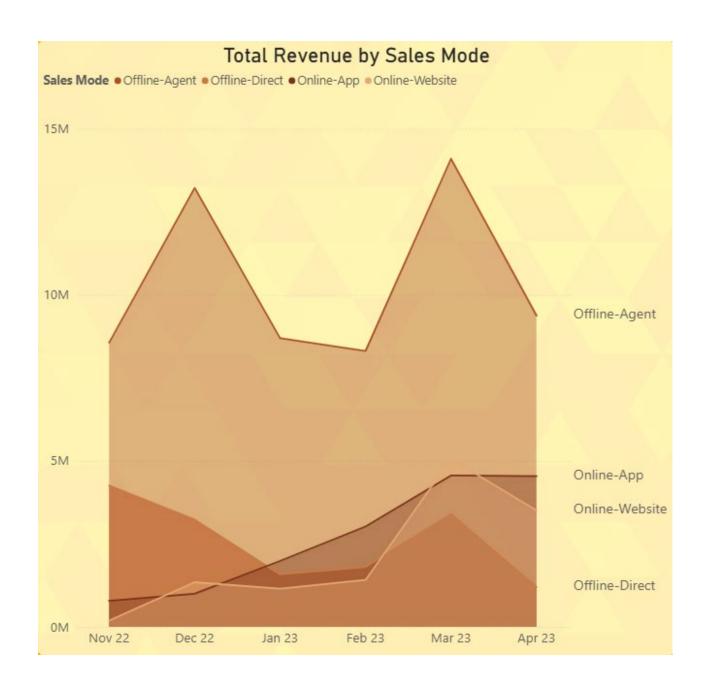
Offline Direct by time has started becoming the least preferred medium by customers starting from being the second most preferred medium due to:

- The rise of Online Apps and Online Websites.
- Time investment needed to visit insurance companies and understanding complex policies on your own.
- Commission charged by the insurance agents.
- Transparency
- Slow Process



Chennai generated the highest amount of revenue and customers through Offline Agent sales mode due to slow reach of Online Apps and Websites.





Age Group Analysis- Part 1

In Dashboard





Overview

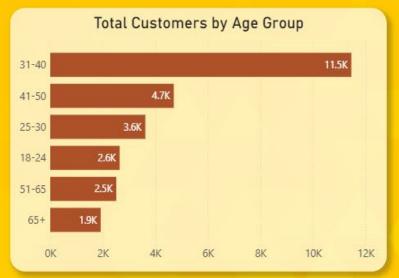
Sales Mode Analysis

Age Group Analysis 1

Age Group Analysis 2

Home



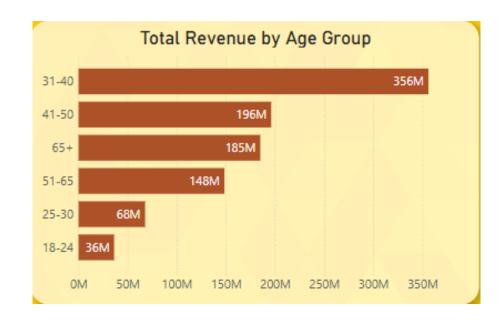


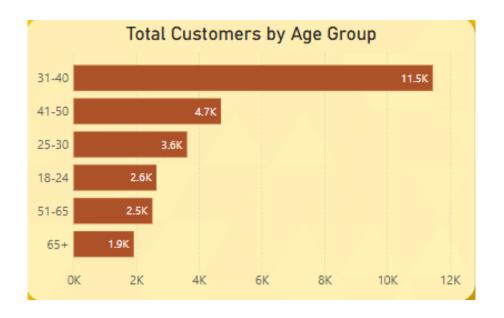




Highest Revenue and Highest Customers generating Age Group- 31-40. People in 31-40 are well settled people looking towards a protected life for themselves and their kids.

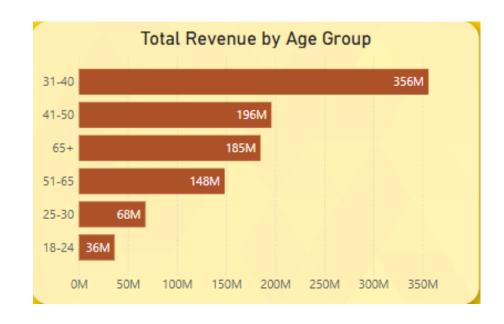
The Second-Highest number of Customers and Revenue came from the people in the group 41-50 who may purchase long-term premium policies and have higher coverage needs.

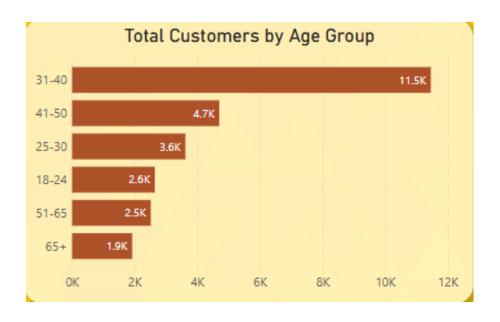


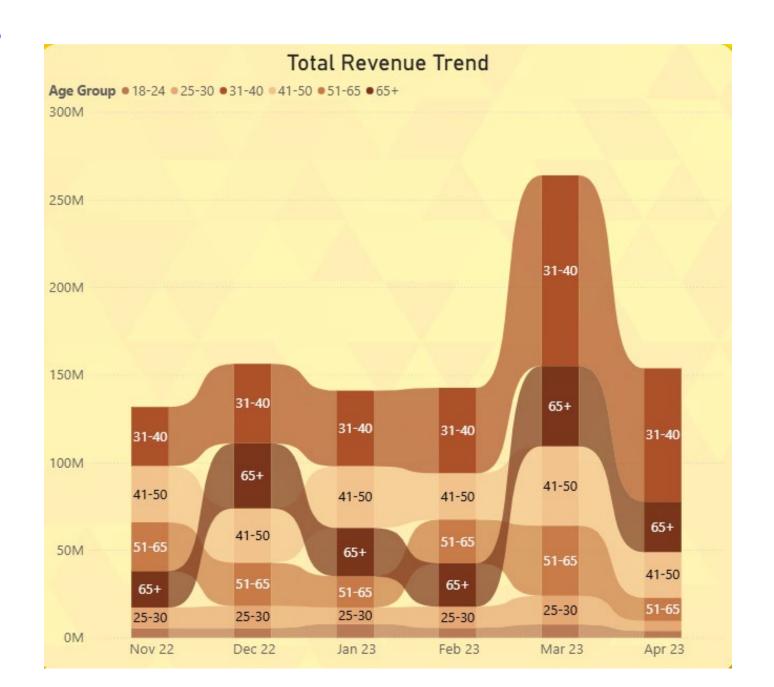


The 65+ segment shows lowest customer volume maybe due to high rejection and strict underwriting but third highest revenue, reflecting larger premiums and comprehensive plans common in older age groups.

The **18-24** group shows **lowest** revenue volume and low customer volume but above 51+ segment. They are likely students or early professionals buying low-premium policies and likely added dependents by parents boosting customer volume.







31–40 Segment Peak

- Continues to lead consistently in revenue across all months.
- Driven by sheer volume and value large number of buyers + mid-high premium plans.
- ₹109M from one group is a strong indicator of premium-heavy policies or bundled offerings.

65+ Segment Spike

- Even with modest customer growth, revenue jumps to ₹46M in March.
- Suggests sale of very high-premium policies (e.g., health, retirement, or guaranteed return plans).
- Underwriting might have been temporarily relaxed, or a niche product launched.

March 2023 Spike (All Age Groups)

- 1. Likely a major campaign month, possibly tied to:
 - End-of-financial-year (March) push many customers buy policies to claim tax deductions under Section 80C, 80D (India).
 - Sales teams may aggressively target all segments.
- 2. High-value policies were likely sold, especially to 31-40 and 65+.



Age Group Analysis- Part 2

In Dashboard



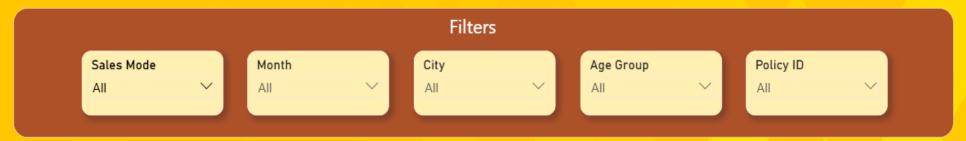
Overview

Sales Mode Analysis

Age Group Analysis 1

Age Group Analysis 2

Home



Age Group vs Policy Preference

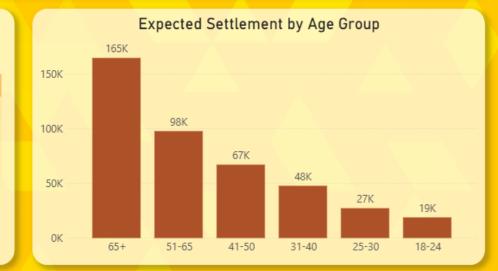
Age Group POL1048HEL POL2005HEL POL3309HEL POL4321HEL POL4331HEL POL5319HEL POL6093HEL POL6303HEL POL9221HEL

18-24	45	47	315	1223	551	134	111	131	83
25-30	127	86	555	1172	679	347	223	281	147
31-40	659	578	2026	1405	1741	1628	1114	1383	921
41-50	313	333	571	351	460	755	633	772	511
51-65	228	354	256	187	179	314	273	314	406
65+	296	570	106	96	125	151	189	136	250
Total	1668	1968	3829	4434	3735	3329	2543	3017	2318

Age Group vs Sales Mode

Age Group Offline-Agent Offline-Direct Online-App Online-Website

31-40	6164	1687	1954	1650
41-50	2679	758	698	564
25-30	2036	645	523	413
18-24	1507	465	390	278
51-65	1444	386	393	288
65+	1043	315	344	217
Total	14873	4256	4302	3410



Policy Preference

		Age Group vs Policy Preference							
1048HEL PO	L2005HEL PC	DL3309HEL PO	L4321HEL PO	OL4331HEL P	OL5319HEL PC	L6093HEL POI	L6303HEL POI	9221HEL	
45	47	315	1223	551	134	111	131	83	
127	86	555	1172	679	347	223	281	147	
659	578	2026	1405	1741	1628	1114	1383	921	
313	333	571	351	460	755	633	772	511	
228	354	256	187	179	314	273	314	406	
296	570	106	96	125	151	189	136	250	
1668	1968	3829	4434	3735	3329	2543	3017	2318	
	45 127 659 313 228 296	45 47 127 86 659 578 313 333 228 354 296 570	45 47 315 127 86 555 659 578 2026 313 333 571 228 354 256 296 570 106	45 47 315 1223 127 86 555 1172 659 578 2026 1405 313 333 571 351 228 354 256 187 296 570 106 96	45 47 315 1223 551 127 86 555 1172 679 659 578 2026 1405 1741 313 333 571 351 460 228 354 256 187 179 296 570 106 96 125	45 47 315 1223 551 134 127 86 555 1172 679 347 659 578 2026 1405 1741 1628 313 333 571 351 460 755 228 354 256 187 179 314 296 570 106 96 125 151	45 47 315 1223 551 134 111 127 86 555 1172 679 347 223 659 578 2026 1405 1741 1628 1114 313 333 571 351 460 755 633 228 354 256 187 179 314 273 296 570 106 96 125 151 189	127 86 555 1172 679 347 223 281 659 578 2026 1405 1741 1628 1114 1383 313 333 571 351 460 755 633 772 228 354 256 187 179 314 273 314 296 570 106 96 125 151 189 136	

Most Preferred Policy

POL1048HEL

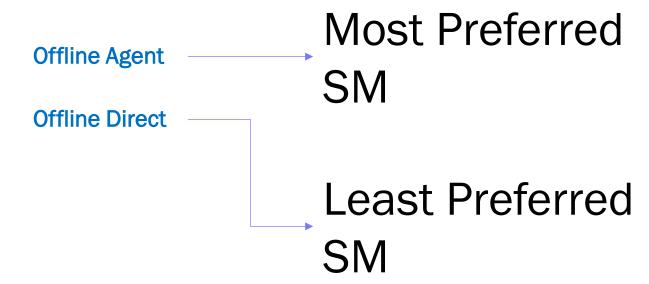
Least Preferred Policy



Sales Mode Preference

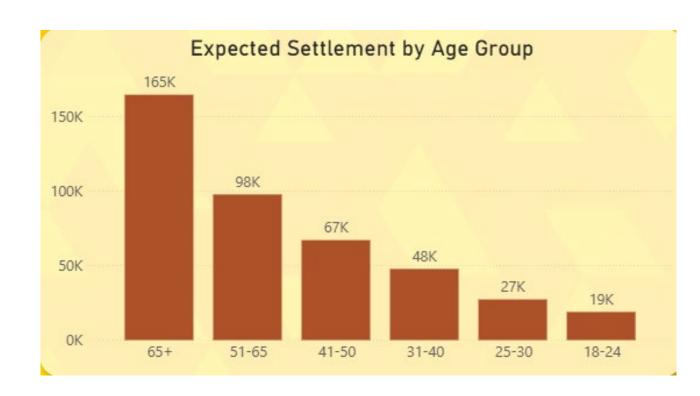
Age Group vs Sales Mode								
Age Group C	Offline-Agent Offli	ne-Direct On	line-App Onlin	ie-Website				
31-40	1113	145	632	564				
41-50	273	35	161	117				
25-30	141	24	85	52				
18-24	130	25	76	59				
65+	116	22	88	59				
51-65	101	15	74	42				
Total	1874	266	1116	893				

As of April 2023- Current Time



Expected Settlement is the **Highest** for **Age Group 65+** generating 164.58k which is **38.89%** of expected settlement amount.

Lowest for Age Group 18-24 generating only 18.88k which is 4.46% of expected settlement amount.



Reasons behind Highest expected settlements in Age Group 65+ and Lowest in 18-24

1. Higher Age = Higher Expected Settlements

The 65+ group dominates with over 38% of total expected settlement percentage.

- Older policyholders are more likely to claim settlements due to health risks, policy maturity, or mortality.
- Many insurance products (life, health, pension) are more actively utilized or mature in older age.

2. Steady Decline with Age Decrease

As you go younger (51–65 \rightarrow 18–24), the expected settlement percentage gradually declines.

- Younger individuals are less likely to file claims.
- Policies may still be in early stages (e.g., in lock-in period or not matured).
- Lower incidence of health events or death.

3. Demographic Distribution vs. Risk Exposure

Even if younger age groups have **many customers**, they still contribute less to expected settlement. This could reflect

- Lower risk exposure
- Lower policy amounts (younger people may opt for cheaper premiums)
- Fewer claim-triggering events

Recommendations

Area	Recommendation
Core Growth Segment	Prioritize 31–40 for high revenue and customer base
Channel Strategy	Strengthen Online; optimize Offline-Direct usage
Product Bundling	Promote top-selling policies with age-fit add-ons
Risk Management	Reinforce underwriting for 65+ group
Tax Season Playbook	Annual campaigns in Feb-Mar to replicate March spike
Youth Segment Growth	Digital acquisition + affordable plans

Thank You