MYSQL PROJECT



Insurance Agency Data

Sisi Wang

Proejct Summary: MySQL Database for Insurance Agency



This MySQL project establishes a comprehensive database for an insurance agency, focusing on key aspects such as brokerage information, new submissions, new businesses, commissions, and binding ratios. The database empowers the agency to efficiently track and analyze critical operational metrics, providing insights into broker performance and facilitating strategic decision-making. Through tables like Submission, New Business, and Report, the database offers a centralized platform for managing data, calculating commissions, and assessing binding ratios, enhancing overall efficiency and profitability for the insurance agency.

Tables

1. Brokerage Table:

- Stores essential details for each brokerage.
- Includes the name and associated data.

2. Submission Table:

- Logs new submissions and client interactions.
- 3. New Business Table:
 - Focuses on binding new policies.
 - Holds pertinent details on new business transactions.

4. Report Table:

- Centralizes critical metrics for analysis.
- Displays total submissions, bound new businesses, and binding ratios for brokerages.

5. Commission Table:

 Specifies commission percentages for insurance company products.



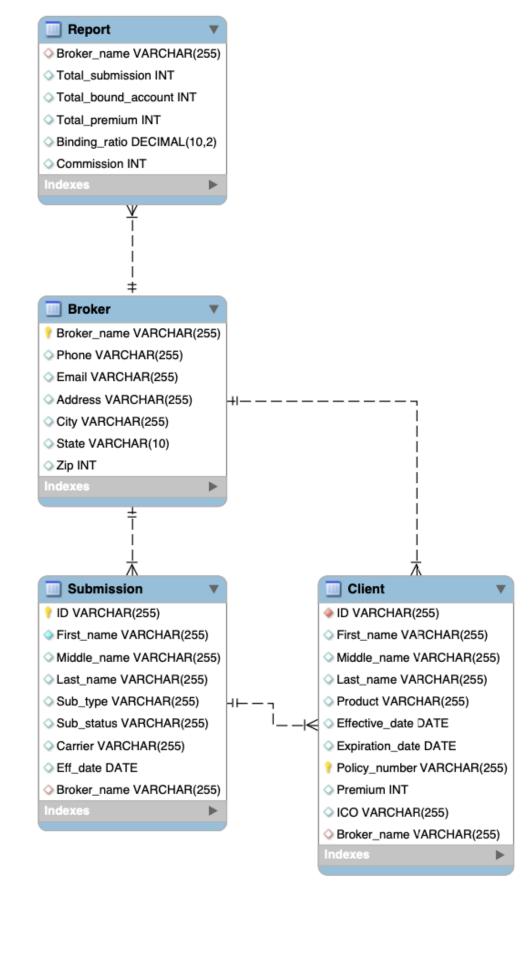
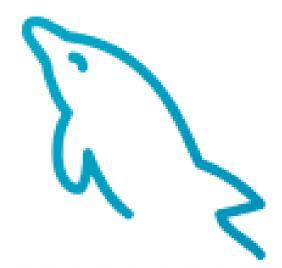


Table-Broker



mysql> select * from Broker;

Į.	Broker_name	Phone	Email	Address	City City	State	Zip
[Alan Cohen	516-409-3384	mail@gmail.com	28 Liberty St 5th Flr	New York	NY	10005
[Castle Rock Capacity Insurance Agency General Liability Insurance NYC	212-360-2334 646-814-2290	Insurance@gmail.com general@gmail.com	90 Broad St # 1503 890 1st Ave	New York New York	NY NY	10004 10022
	Insure NYC Brokerage Inc Jeff Waddle Ins Agency Inc	212-799-7500 212-533-2230	<pre>InsureNYC@gmail.com info@hotmail.com</pre>	33 West 60th Street 2nd fl	Queens New York	NY NY	10023 10011
[Kate Rhee	212-72502510	info@gmail.com	315 Fifth Avenue Suite 703B	New York	NY	10016
	Kingsbrook Brokerage Services M&T Insurance Agency Inc	212-227-5444 800-716-8314	kingsbrook@gmail.com MT@gmail.com	32 Broadway 350 Park Ave	New York New York	NY NY	10004 10022
	New York Insurance Company NY Insurance Brokerage Inc	718-550-8707 718-476-2025	nyins@gmail.com NYIns@gmail.com	9114 59th Ave 71–16 35th Ave	Elmhurst Jackson Heights	NY NY	11373 11372
	RSN Insurance Agency	212-904-1044	RSNIns@gmail.com	481 8th Ave	New York	NY	10001
	Schulman Insurance Brokerage, LLC +	516-632-5225 +	info@schulman.mail	825 E Gate Blvd, Ste 305 	Garden City +	NY +	11530 ++

Table - Submission ()

[mysql>	select * from	AgencyData.Subr	mission;			1		
ID	First_name	Middle_name	Last_name	Sub_type	Sub_status	Carrier	Eff_date	Broker_name
AA001	Abigail	C	Anderson	Home	Released	USLI	2024-01-11	Jeff Waddle Ins Agency Inc
AS009	Ava	1	Smith	Home	Released	USLI	2024-01-10	General Liability Insurance NYC
AW000	Amelia	E	Wilson	Home	Released	Utica First	2024-01-10	Jeff Waddle Ins Agency Inc
CM002	Clara	C	Miller	Home	Released	Geico	2024-01-23	New York Insurance Company
CM017	Chloe	ĺ	Martin	Dwelling	Released	USLI	2024-03-01	New York Insurance Company
CR011	Camila	ĺ	Rodriguez	Home	Released	Geico	2024-01-19	Kate Rhee
CT016	Charlotte	ĺ	Taylor	Flood	Released	Wright	2024-01-19	Schulman Insurance Brokerage, LLC
DM006	Delilah	ĺ	Moore	Home	Released	Geico	2024-02-02	Kingsbrook Brokerage Services
ED008	Emily	ĺ	Davis	Home	Released	Utica First	2024-02-22	NY Insurance Brokerage Inc
EG010	Elizabeth	C	Garcia	Home	Released	USLI	2024-01-10	Kate Rhee
EJ004	Eleanor	K	Jackson	Home	Released	Geico	2024-01-20	New York Insurance Company
ET012	Ella	ĺ	Thomas	Home	Declined		2024-02-20	Alan Cohen
EW018	Evelyn	İ	White	Dwelling	Released	USLI	2024-02-20	Kate Rhee
IM005	Isabella	İΧ	Martinez	Home	Released	Allstate	2024-01-24	M&T Insurance Agency Inc
j JK020	Jenny	İ	Kim	Home	Released	Utica First	2024-02-20	RSN Insurance Agency
JL021	Jay	İ	Lee	Home	Released	Geico	2024-02-20	Insure NYC Brokerage Inc
JM019	Jane	İ	Moore	Dwelling	Released	USLI	2024-02-20	Schulman Insurance Brokerage, LLC
j JW007	Josephine	ĺ	Williams	Home	Released	USLI	2024-01-19	
LJ014	Lillian	İ	Johnson	Flood	Released	Wright	2024-02-10	Alan Cohen
LJ015	Luna	İ	Jones	Flood	Decliend	Wright	2024-01-10	Alan Cohen
МТ013	Mia	İ	Thompson	Home	Decliend		2024-01-23	General Liability Insurance NYC
овооз	Olivia	ĺ	Brown	Home	Released	Allstate	2024-01-23	Jeff Waddle Ins Agency Inc
+	-+	+	+		+	+	+	++

ysql> select * from Client;										
ID	First_name	Middle_name	Last_name	Product	Effective_date	Expiration_date	Policy_number	Premium	ICO	Broker_name
CM017	Chloe	 	Martin	Dwelling	2024-01-17	2025-01-17	DP 345555	2390	USLIDP	New York Insurance Company
CR011	Camila		Rodriguez	Home	2024-01-20	2025-01-20	HO 234097	1290	GEICO	Kate Rhee
CM002	Clara	C	Miller	Home	2024-02-10	2025-02-10	H0 234167	2300	GEICO	New York Insurance Company
EG010	Elizabeth	C	Garcia	Home	2024-01-20	2025-01-20	H0 234267	1420	USLIHO	Kate Rhee
LJ015	Luna		Jones	Flood	2024-02-10	2025-02-10	H0 234517	4200	WRIGHT	Alan Cohen
EJ004	Eleanor	K	Jackson	Home	2024-03-10	2025-03-10	H0 234527	1600	GEICO	New York Insurance Company
LJ014	Lillian		Johnson	Flood	2024-01-17	2025-01-17	H0 234537	2100	WRIGHT	Alan Cohen
JM019	Jane		Moore	Dwelling	2024-01-13	2025-01-13	H0 234560	3108	USLIDP	Schulman Insurance Brokerage, LLC
JL021	Jay		Lee	Home	2024-01-19	2025-01-19	HO 2345600	1900	GEICO	Insure NYC Brokerage Inc
AA001	Abigail	C	Anderson	Home	2024-01-10	2025-01-10	H0 234567	1450	USLIHO	Jeff Waddle Ins Agency Inc
AS009	Ava		Smith	Home	2024-01-12	2025-01-12	H0 234597	1100	USLIHO	General Liability Insurance NYC
JK020	Jenny		Kim	Home	2024-01-12	2025-01-12	H0 234599	2208	UTICA	RSN Insurance Agency
DM006	Delilah		Moore	Home	2024-02-11	2025-02-11	HO 237567	1500	ALLSTATE	Kingsbrook Brokerage Services
JW007	Josephine		Williams	Home	2024-01-11	2025-01-11	H0 284567	1200	ALLSTATE	Castle Rock Capacity Insurance Agency

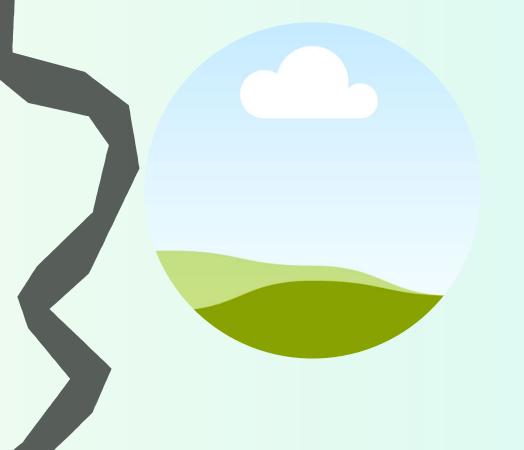


Table - Client

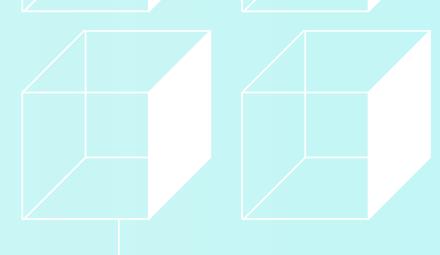


Table - Commission

[mysql> seled	ysql> select * from Commission;										
ICO	Company	Bill	Product	Agency_commission	Broker_commission						
ALLSTATE GEICO USLIDP USLIHO UTICA WRIGHT	Allstate Geico USLI USLI Utica First Wright	Direct Direct Direct Direct Direct Direct	Home Home Dwelling Home Home	0.22 0.25 0.18 0.20 0.15 0.15	0.15 0.15 0.15 0.15 0.15 0.10						

Commission for carrier product

Table - Report

[mysql> select * from Report

Broker_name	Total_submission	Total_bound_account	Total_premium	Binding_ratio	Commission
Alan Cohen	3		6300	0.67	630
Castle Rock Capacity Insurance Agency	1	1	1200	1.00	180
General Liability Insurance NYC	2	1	1100	0.50	165
Insure NYC Brokerage Inc	1	1	1900	1.00	285
Jeff Waddle Ins Agency Inc	3	1	1450	0.33	218
Kate Rhee	3	2	2710	0.67	407
Kingsbrook Brokerage Services	1	1	1500	1.00	225
M&T Insurance Agency Inc	1	0	0	0.00	0
New York Insurance Company	3	3	6290	1.00	944
NY Insurance Brokerage Inc	1	0	0	0.00	0
RSN Insurance Agency	1	1	2208	1.00	221
Schulman Insurance Brokerage, LLC	2	1	3108	0.50	466

Count total submission for each broker

+	+
Broker_name	Total_submission
Alan Cohen	3 1 2 1 3 3 1 1
New York Insurance Company NY Insurance Brokerage Inc RSN Insurance Agency Schulman Insurance Brokerage, LLC	3 1 1 2

UPDATE Report
SET Total_submission = (
 SELECT COUNT(ID)
 FROM AgencyData.Submission
 WHERE Broker_name = Report.Broker_name);

SELECT Broker_name, Total_submission
FROM Report;

Count total bind account for each broker

```
UPDATE Report
SET Total_bound_account = (
    SELECT COUNT(ID)
    FROM AgencyData.Client
    WHERE Broker_name = Report.Broker_name);

SELECT Broker_name, Total_bound_account
FROM Report;
```





Broker_name	Total_bound_account
Alan Cohen Castle Rock Capacity Insurance Agency General Liability Insurance NYC Insure NYC Brokerage Inc Jeff Waddle Ins Agency Inc Kate Rhee Kingsbrook Brokerage Services M&T Insurance Agency Inc New York Insurance Company NY Insurance Brokerage Inc RSN Insurance Agency	2 1 1 1 2 1 0 3 0 1
Schulman Insurance Brokerage, LLC	1





SUM earned commission

```
UPDATE Report

SET Commission = (

SELECT SUM(Client.Premium * Commission.Broker_commission)

FROM Client

JOIN Commission

ON Client.ICO = Commission.ICO

AND Client.Product = Commission.Product

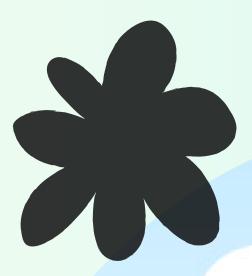
WHERE Client.Broker_name = Report.Broker_name);

UPDATE Report SET Commission = 0

WHERE Commission IS NULL;
```

SELECT Broker_name, Commission FROM Report;

Broker_name	Commission
Alan Cohen Castle Rock Capacity Insurance Agency	630 180
General Liability Insurance NYC Insure NYC Brokerage Inc	165 285
Jeff Waddle Ins Agency Inc Kate Rhee	218
Kingsbrook Brokerage Services	225
M&T Insurance Agency Inc New York Insurance Company	944
NY Insurance Brokerage Inc RSN Insurance Agency	0 221
Schulman Insurance Brokerage, LLC	466



Calculate Binding Ratio

```
UPDATE Report
SET Bing_ratio =
    CASE
        WHEN Total_submission <> 0
        AND Total_submission IS NOT NULL
        THEN Total_bound_account / Total_submission
        ELSE NULL
END;
```

SELECT Broker_name, Binding_ratio FROM Report;

+	
Broker_name	Binding_ratio
Alan Cohen Castle Rock Capacity Insurance Agency General Liability Insurance NYC Insure NYC Brokerage Inc Jeff Waddle Ins Agency Inc Kate Rhee Kingsbrook Brokerage Services M&T Insurance Agency Inc New York Insurance Company NY Insurance Brokerage Inc	0.67 1.00 0.50 1.00 0.33 0.67 1.00 0.00 1.00
RSN Insurance Agency Schulman Insurance Brokerage, LLC	1.00 0.50
4	



Group by

SELECT Eff_date AS Submission_date, COUNT(Eff_date) FROM Submission GROUP BY Eff_date;

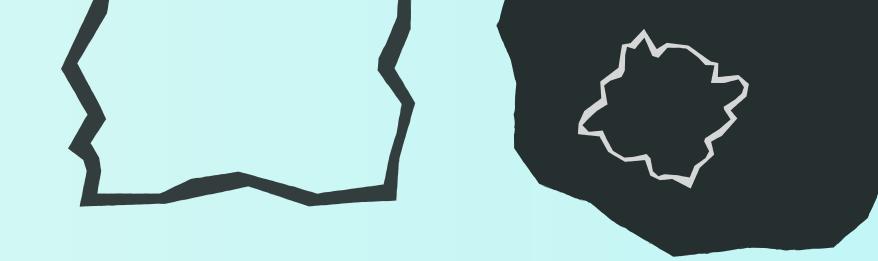
Submission_date	Count(Eff_dat
2024-01-11	1
2024-01-10	4
2024-01-23	3
2024-03-01	1
2024-01-19	3
2024-02-02	1
2024-02-22	1
2024-01-20	1
2024-02-20	5
2024-01-24	1
2024-02-10	1
2024-02-20 2024-01-24	5 1

Order by

SELECT Broker_name, Total_submission
FROM Report
ORDER BY Total_submission DESC
LIMIT 3;

Broker_name	Total_submissi
Alan Cohen	3
Kate Rhee	3
Jeff Waddle Ins Agency Inc	3





Create procedure

CREATE PROCEDURE GetMonthlyReport (StartDate DATE, EndDate DATE)

SELECT * FROM Client

WHERE Effective_date BETWEEN StartDate

AND Enddate;

CALL GetMonthlyReport ('2024-02-01', '2024-02-29');

[mysql> CALL GetMonthlyReport('2024-02-02', '2024-02-29');

ID	First_name	Middle_name	Last_name	Product	Effective_date	Expiration_date	Policy_number	Premium	ICO	Broker_name
CM002 LJ015 DM006	Clara Luna Delilah	С	Miller Jones Moore	Home Flood Home	2024-02-10 2024-02-10 2024-02-11	2025-02-10 2025-02-10 2025-02-11	HO 234167 HO 234517 HO 237567	2300 4200 1500	WRIGHT	New York Insurance Company Alan Cohen Kingsbrook Brokerage Services

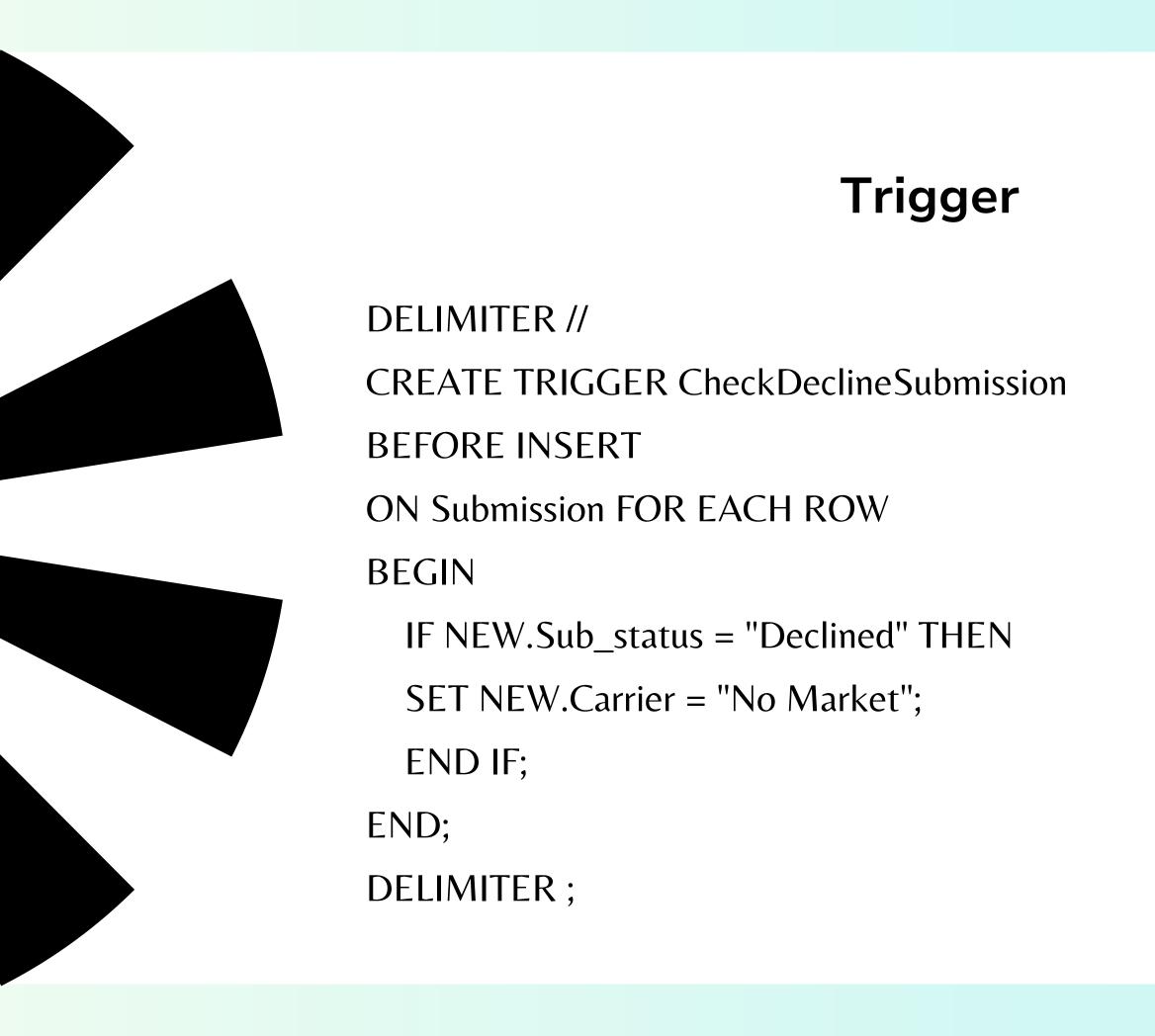


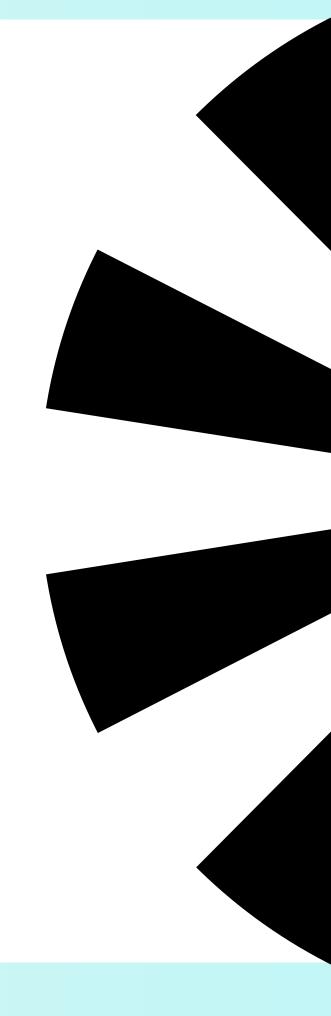
Function

SELECT GetCommission(2000, "USLI", "Home");

```
DELIMITER //
CREATE FUNCTION GetCommission(Amount INT, Co VARCHAR(255), Product VARCHAR(255))
RETURNS INT DETERMINISTIC
BEGIN
IF (Co = "USLI" AND (Product = "Home" OR Product = "Dwelling")) THEN
SET Amount = Amount * 0.15;
  ELSEIF (Co = "Utica First" AND Product = "Home") THEN
 SET Amount = Amount * 0.10;
  ELSEIF (Co = "Geico" AND Product = "Home") THEN
SET Amount = Amount * 0.15;
  ELSEIF (Co = "Allstate" AND Product = "Home") THEN
 SET Amount = Amount * 0.15;
  END IF:
RETURN (Amount);
END//
DELIMITER;
                                               GetCommission(2000, "USLI", "Home")
```

300





VIEW - JAN-Report -2024

CREATE VIEW Jan_Report AS

SELECT Broker_Broker_name,

COUNT(DISTINCT CASE WHEN Submission.Eff_date >= '2024-01-01' AND Submission.Eff_date < '2024-02-01' THEN Submission.ID END) AS Submission,

COUNT(DISTINCT CASE WHEN Client.Effective_date >= '2024-01-01' AND Client.Effective_date < '2024-02-01' THEN Client.ID END) AS Bind,

ROUND(COALESCE((COUNT(DISTINCT CASE WHEN Client.Effective_date >= '2024-01-01' AND Client.Effective_date < '2024-02-01'

THEN Client.ID END) / NULLIF(COUNT(DISTINCT CASE WHEN Submission.Eff_date >= '2024-01-01' AND Submission.Eff_date < '2024-02-01'

THEN Submission.ID END), 0)) * 100, 0), 2) AS Binding_Ratio,

COALESCE(SUM(Client.Premium * Commission.Broker commission), 0) AS Commission

FROM Broker

LEFT JOIN Submission ON Broker.Broker_name = Submission.Broker_name AND Submission.Eff_date >= '2024-01-01'

AND Submission.Eff_date < '2024-02-01'

LEFT JOIN Client ON Broker.Broker_name = Client.Broker_name AND Client.Effective_date >= '2024-01-01' AND Client.Effective_date < '2024-02-01'

LEFT JOIN Commission ON Client.ICO = Commission.ICO AND Client.Product = Commission.Product

GROUP BY Broker_Broker_name;

Broker_name	Submission	Bind	Binding_Ratio	Commission
Alan Cohen	1	1	100.00	210.00
Castle Rock Capacity Insurance Agency	j 1 j	1	100.00	180.00
General Liability Insurance NYC	2	1	50.00	330.00
Insure NYC Brokerage Inc	0	1	0.00	285.00
Jeff Waddle Ins Agency Inc	3	1	33.33	652.50
Kate Rhee	2	2	100.00	813.00
Kingsbrook Brokerage Services	0	0	0.00	0.00
M&T Insurance Agency Inc	1	0	0.00	0.00
New York Insurance Company	2	1	50.00	717.00
NY Insurance Brokerage Inc	0	0	0.00	0.00
RSN Insurance Agency	0	1	0.00	220.80
Schulman Insurance Brokerage, LLC	1	1	100.00	466.20
+	+			

VIEW - JAN-Report-2024

Chart Page

Chart shows the following info for each brokerage:

- Total Submissions
- Total Bound Accounts

iii Columns	Broker name	Measure Names
≡ Rows	Measure Values	

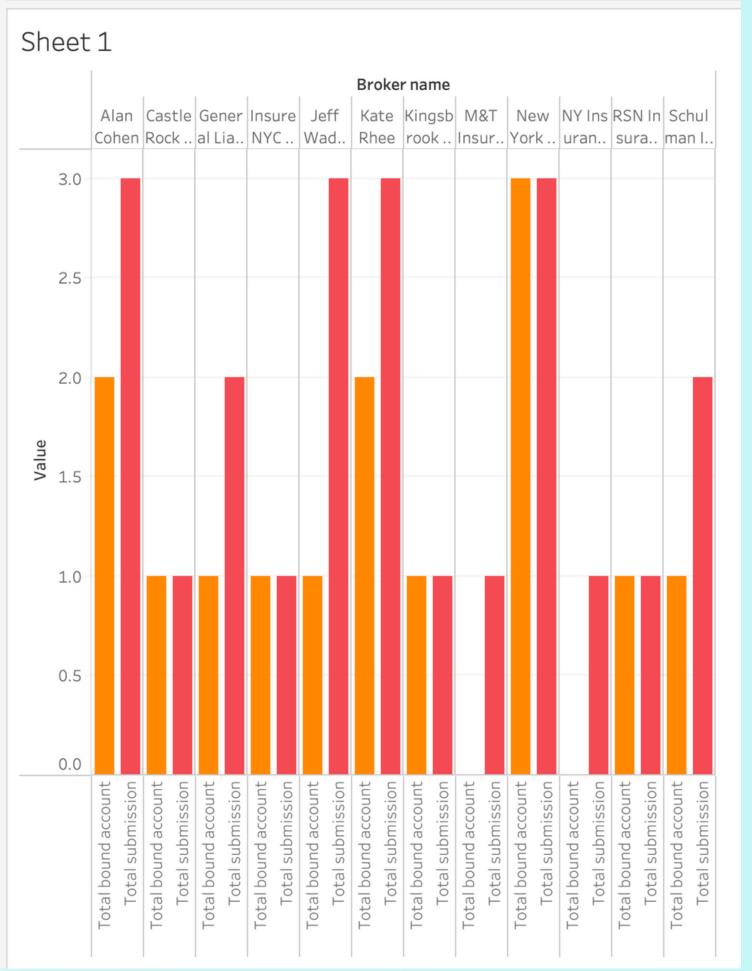




Chart Page

Chart shows the following info for each brokerage:

- Total Submissions
- Total Bound Accounts



Thank You!

2024-01-30

Sisi Wang

