BI
Mini Project
Real Estate

1. Dimension Tables

Records — 5,000 rec → **Dimension Tables**
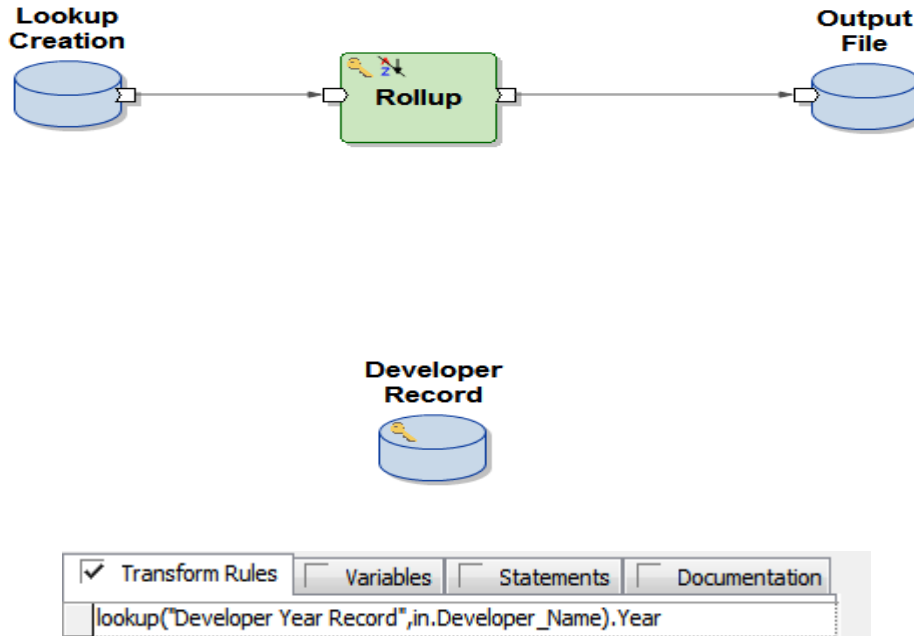
- 4,998 rec → **Sorting** — 4,998 rec → **Removing Duplicates** — 70 rec → **Adding Key** — 70 rec → **DIM_Property**
- 4,998 rec → **Sorting-1** — 4,998 rec → **Removing Duplicates-1** — 106 rec → **Adding Key-1** — 106 rec → **DIM_Developer**
- 4,998 rec → **Sorting-2** — 4,998 rec → **Removing Duplicates-2** — 4,998 rec → **Adding Key-2** — 4,998 rec → **DIM_Investment**
- 4,998 rec → **Sorting-3** — 4,998 rec → **Removing Duplicates-3** — 1,064 rec → **Adding Key-3** — 1,064 rec → **DIM_Time**

Developer Year Record

2. Fact Table

Records → **Fact Table** → **FACT_Estate**

Time Record

Property Record   **Developer Year Record**

Developers Record   **Investors Record**

3. Removing varying **Year_of_Establishment:**

Transform Rules ✓ | Variables | Statements | Documentation

lookup("Developer Year Record",in.Developer_Name).Year

4. Input Records

➢ Comparison of different companies:
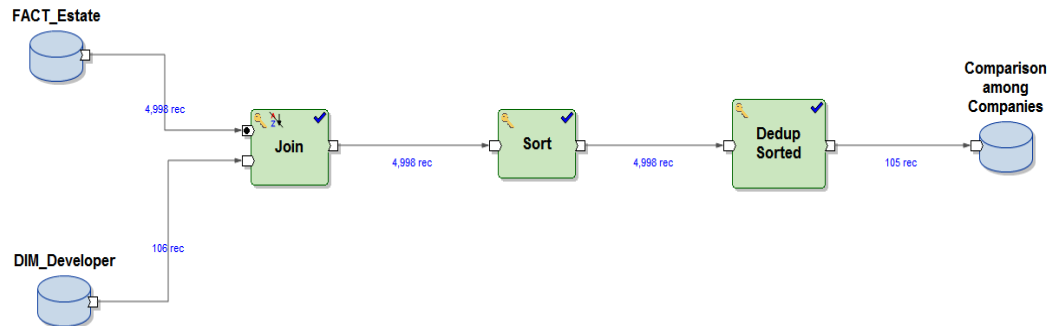
	Developer_Name	Year…	CEO	Numbe…	R…
1	Aaryan Estates	2006	Aryan Patel	5336	B
2	Adithya Birla Group	1857	Dr.Santrupt B. Misra	136000	E
3	Amey UK	1917	Jonathon Sanford	1323	D
4	Amrapalli Group	1973	Dr.Anil Kumar Sharma	1023	A
5	Ardmore	1884	Johan Hayes	1605	E
6	Arun Excello	1987	Sriram P	1255	E
7	BAM Construction/Nuttall	1850	Deon Emard	2625	D
8	Barr	1841	Rosalinda Pacocha	2233	B
9	Bechtel	1809	Rafaela Hintz DVM	1909	E
10	Bouygues & Subsidiaries	1911	Viola Murazik	3761	E
11	Bowmer & Kirkland	1930	Effie Legros	1865	C
12	Brett Group	1940	Naomie Daniel	1452	C
13	Brookfield Multiplex	1994	Athena Morar	9625	A
14	Buckingham	1914	Roger Rempel	2994	E
15	Bullock Construction	1844	Chaya Langosh	6738	D
16	Byrne Group	1959	Dante Stanton	7750	C
17	Carey Group	1938	Melvina Veum	2757	D
18	Carillion	1927	Arlo Moore	8282	C
19	City Building (Glasgow)	1918	Casimir Ritchie V	1315	C
20	Clancy	1940	Alvera Murray	9782	A

(Extra: QlikView):

Comparison among Developers

CEO	Developer_Name	Number_of_Employees	Rating …
Adrain Corkery	Emcor	6375	D
Alize Jaskolski MD	NG Bailey	2246	C
Alvera Murray	Clancy	9782	A
Arlo Moore	Carillion	8282	C
Arnold Weissnat DVM	McNicholas Construction	7089	D
Aryan Patel	Aaryan Estates	5336	B
Asa Bechtelar	Northstone NI	6450	A
Athena Morar	Brookfield Multiplex	9625	A
Bailey Witting	Lagan	4545	D
Bethany Mohr IV	Spie Matthew Hall	8478	E
Brenden Hills	Robertson Group	8611	B
Camron Rowe I	Vinci UK	5160	B
Carlee Koelpin	Galliford Try	3361	C
Carlie Stiedemann	RG Carter	1892	D
Carlos Moen DDS	Thomas Armstrong	7225	B
Carmela Ryan	Winvic Group	5565	C

➢ Total Revenue on Area Purchased:
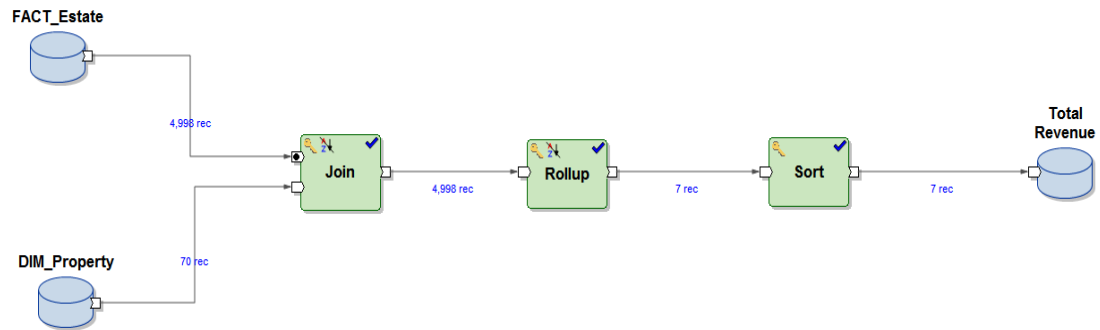
	City	Total_Ar...	Total_Purcah...	Total_Revenue
1	KOLKATA	3633236	11451608116	9254099337
2	PUNE	4747562	18930576650	13824308032
3	Chennai	4884249	33692127374	25103019094
4	HYDERABAD	5009012	39461633657	34523854880
5	BANGALORE	5834374	54116625498	46461736223
6	MUMBAI	7312408	76517312792	56041029972
7	DELHI	6553519	89308365036	64522070982
	[EOF]			

(Extra: QlikView)
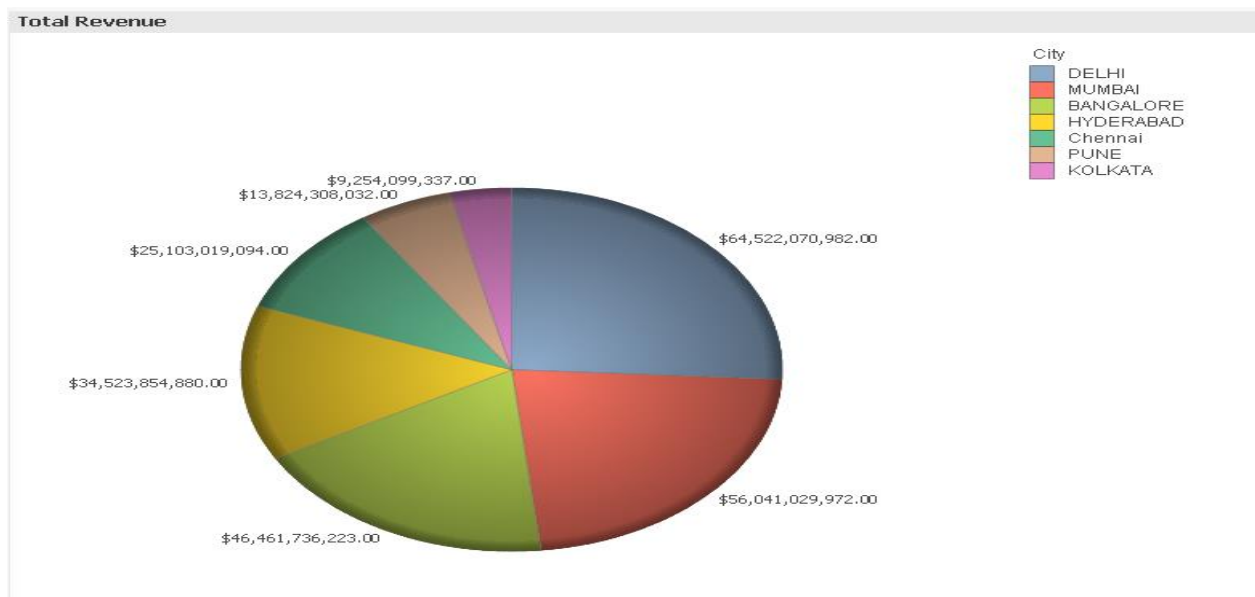
➢ Development of cities Residentially & Commercially:
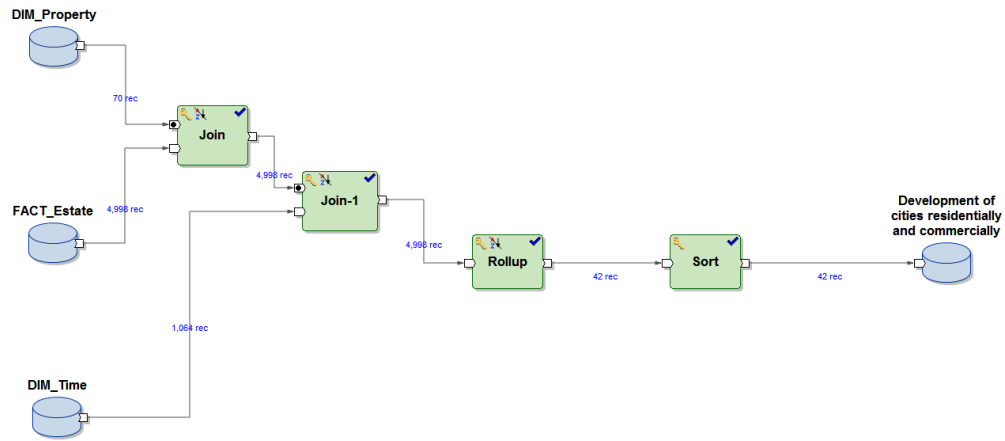
	City	Year	Property_Type	Area_Pu...	
1	BANGALORE	1911	Commercial	813496	
2	BANGALORE	1911	Residential	896436	
3	BANGALORE	1912	Residential	1246333	
4	BANGALORE	1912	Commercial	1342329	
5	BANGALORE	1913	Residential	702949	
6	BANGALORE	1913	Commercial	832831	
7	Chennai	1911	Residential	508210	
8	Chennai	1911	Commercial	567809	
9	Chennai	1912	Commercial	1130264	
10	Chennai	1912	Residential	1230258	
11	Chennai	1913	Commercial	771372	
12	Chennai	1913	Residential	676336	
13	DELHI	1911	Commercial	1071558	
14	DELHI	1911	Residential	908622	
15	DELHI	1912	Commercial	1525537	
16	DELHI	1912	Residential	1340803	
17	DELHI	1913	Residential	908502	
18	DELHI	1913	Commercial	798497	
19	HYDERABAD	1911	Commercial	656390	
20	HYDERABAD	1911	Residential	560194	
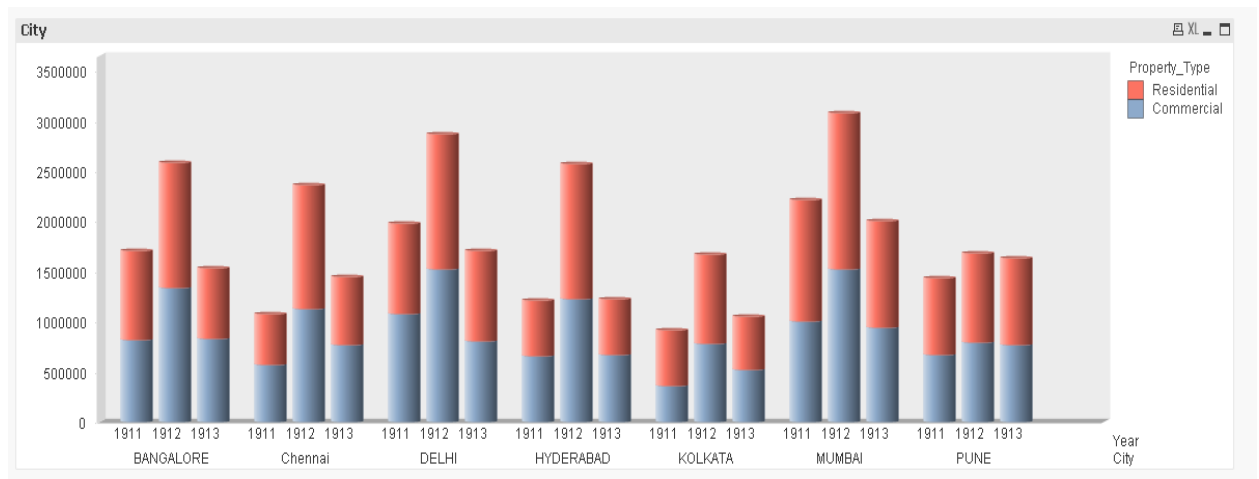
Purchase Trends:
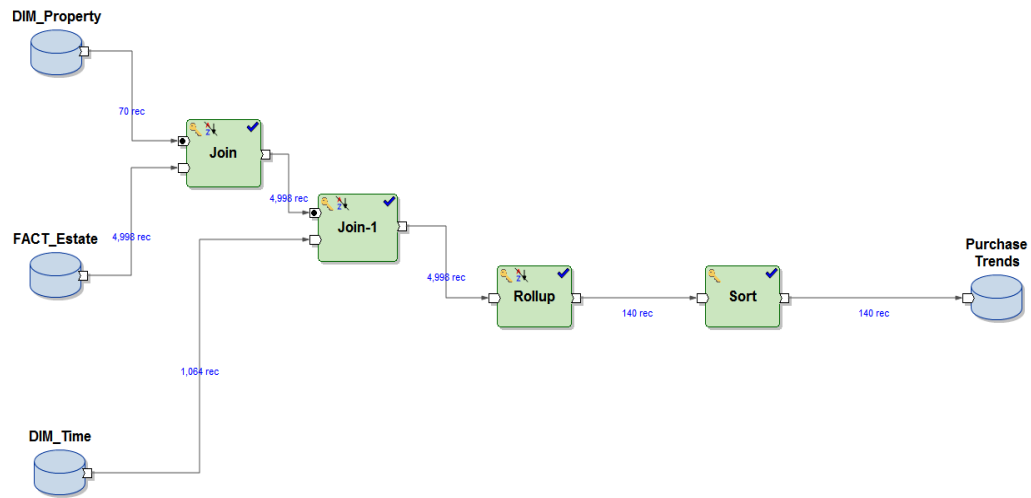
	Locality	Quarter	Avg_Purchase_Amo...	Purchase_Am...
1	AIROLI	Q1	107542483.51515...	3548901956
2	AIROLI	Q2	85963581.384615...	5587632790
3	AIROLI	Q3	101290622.11111...	4558077995
4	AIROLI	Q4	101095040.74	5054752037
5	Adyar	Q1	55742077.583333...	1337809862
6	Adyar	Q2	74718706.769230...	3885372752
7	Adyar	Q3	62981112.076923...	1637508914
8	Adyar	Q4	69170828.076923...	1798441530
9	Anna-Nagar	Q1	82978729.884615...	2157446977
10	Anna-Nagar	Q2	87489961.339622...	4636967951
11	Anna-Nagar	Q3	61219387.076923...	1591704064
12	Anna-Nagar	Q4	59725824.72	1493145618
13	Aundh	Q1	35334106.695652...	812684454
14	Aundh	Q2	37314152.533333...	1679136864
15	Aundh	Q3	36328258.294117...	617580391
16	Aundh	Q4	45415335.6875	1453290742
17	BANJARA-HILLS	Q1	255205889	6635353114
18	BANJARA-HILLS	Q2	161836730.72727...	5340612114
19	BANJARA-HILLS	Q3	172567337.30303...	5694722131
20	BANJARA-HILLS	Q4	175564841.11764...	5969204598
21	Ballygunge	Q1	33300815.727272...	732617946
22	Ballygunge	Q2	46300795	2176137365
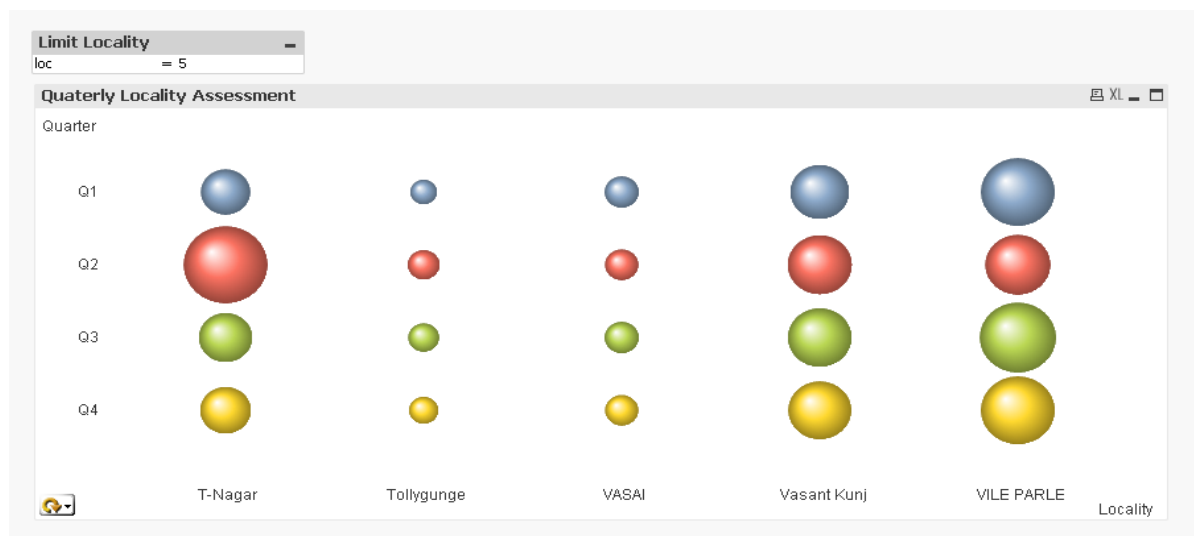
➢ Citywise Ranking of Developers:
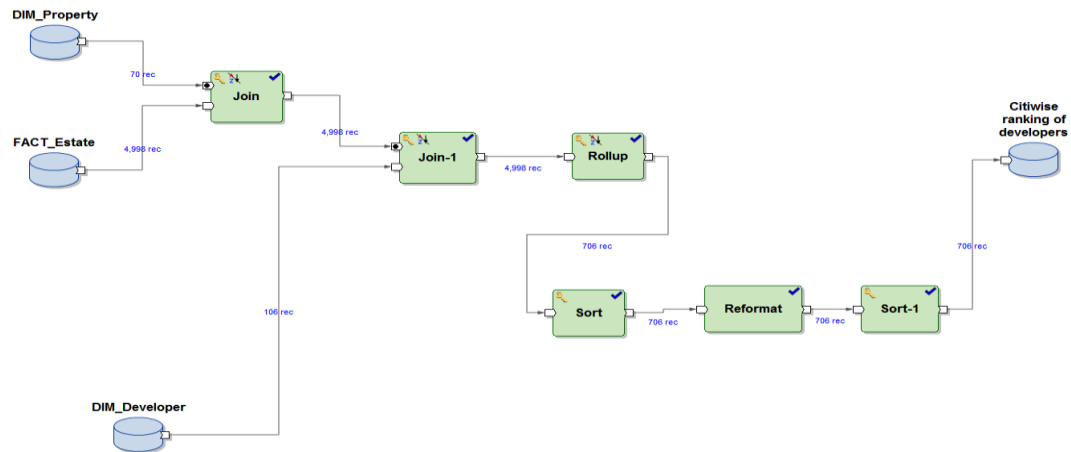
	Ra...	Developer	City	R...	Develo...
1	147	Aaryan Estates	BANGALORE	B	53463
2	171	Aaryan Estates	Chennai	B	50273
3	378	Aaryan Estates	DELHI	B	30445
4	395	Aaryan Estates	HYDERABAD	B	28377
5	261	Aaryan Estates	KOLKATA	B	40277
6	164	Aaryan Estates	MUMBAI	B	50927
7	412	Aaryan Estates	PUNE	B	27353
8	13	Adithya Birla Group	BANGALORE	E	255202
9	10	Adithya Birla Group	Chennai	E	275176
10	30	Adithya Birla Group	DELHI	E	156789
11	27	Adithya Birla Group	HYDERABAD	E	167416
12	34	Adithya Birla Group	KOLKATA	E	140321
13	8	Adithya Birla Group	MUMBAI	E	371589
14	17	Adithya Birla Group	PUNE	E	205143
15	155	Amey UK	BANGALORE	D	51601
16	392	Amey UK	Chennai	D	28619
17	420	Amey UK	DELHI	D	26874
18	612	Amey UK	HYDERABAD	D	13655
19	684	Amey UK	KOLKATA	D	6767
20	376	Amey UK	MUMBAI	D	30868
21	305	Amey UK	PUNE	D	36724
22	168	Amrapalli Group	BANGALORE	A	50601
23	302	Amrapalli Group	Chennai	A	36785
24	230	Amrapalli Group	DELHI	A	43555
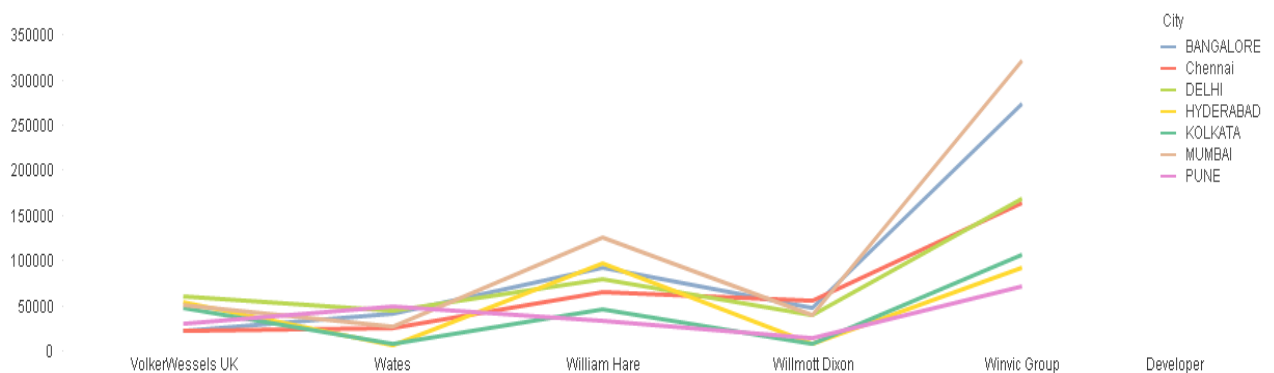
➢ Number of Purchases in cities
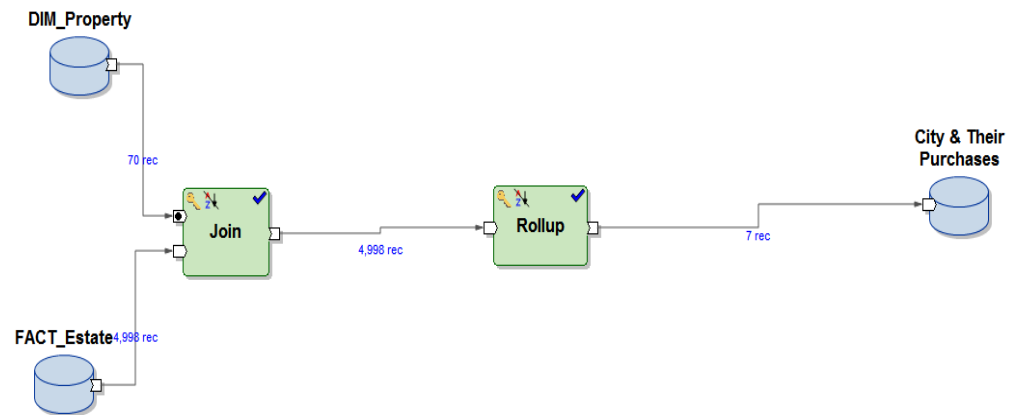
	City	No...	
1	PUNE	624	
2	DELHI	864	
3	MUMBAI	952	
4	BANGALORE	775	
5	HYDERABAD	660	
6	KOLKATA	476	
7	Chennai	647	
	[EOF]		

City Purchase Count

City
- MUMBAI
- DELHI
- BANGALORE
- HYDERABAD
- Chennai
- PUNE
- KOLKATA
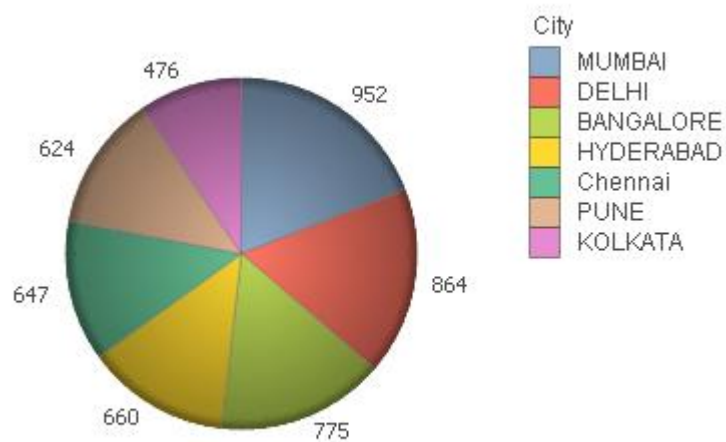
➤ Citywise Assessment of Investments
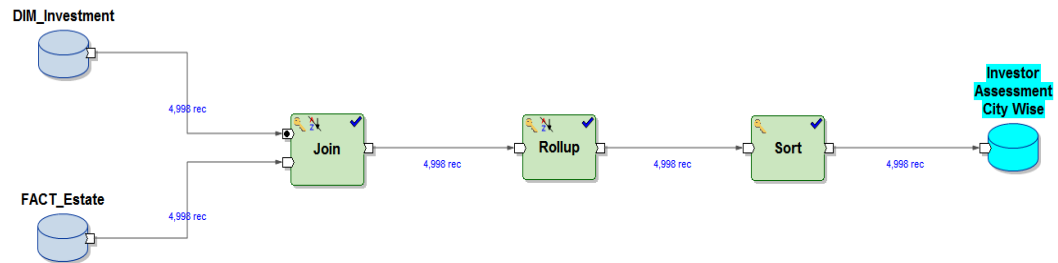
	City	Investor_Name	Email	Total_Purc...	Tota...
1	Agartala	Abel Skiles	Abel@gmail.com	32600524	9691
2	Agartala	Alexandria Yost	Alexandria@gmail.com	23008363	8006
3	Agartala	Asa Carroll	Asa@gmail.com	24575760	6420
4	Agartala	Boyd Kihn	Boyd@gmail.com	11770187	8787
5	Agartala	Carolyn Maggio V	Carolyn@gmail.com	57135270	6591
6	Agartala	Dianna Langosh	Dianna@gmail.com	138957327	9868
7	Agartala	Dr. Mallie Cummings	Dr-Mal@gmail.com	136853923	6161
8	Agartala	Dr. Trey Jewess	Dr-Tre@gmail.com	107300290	9868
9	Agartala	Elissa Cassin	Elissa@gmail.com	238222530	5133
10	Agartala	Emelia Hettinger	Emelia@gmail.com	151010584	7141
11	Agartala	Evie Corkery	Evie@gmail.com	11410978	8150
12	Agartala	Fleta D'Amore	Fleta@gmail.com	20081024	8257
13	Agartala	Frida Prosacco	Frida@gmail.com	29801776	8259
14	Agartala	Madelyn Fisher	Madelyn@gmail.com	61813836	7896
15	Agartala	Marilyne Lehner	Marilyne@gmail.com	55947960	6757
16	Agartala	Maudie Hintz	Maudie@gmail.com	114221016	9828
17	Agartala	Modesto Murray	Modesto@gmail.com	30376737	7259
18	Agartala	Mr. Rosalind Boehm	Mr-Ros@gmail.com	15336000	7100
19	Agartala	Rebeca Jenkins	Rebeca@gmail.com	23524193	8257
20	Agartala	Ruby Howell	Ruby@gmail.com	31817999	8586
21	Agartala	Ruthie Grimes PhD	Ruthie@gmail.com	5401917	6129
22	Agartala	Troy Kozey	Troy@gmail.com	94872912	6993
23	Agartala	Wanda Frami	Wanda@gmail.com	8793646	7535
24	Agartala	Wilhelm Waelchi	Wilhelm@gmail.com	25699872	6161
25	Agra	Addison Miller	Addison@gmail.com	42907420	5042
26	Agra	Alexa Blanda	Alexa@gmail.com	41252380	7420
27	Agra	Alycia Kozey	Alycia@gmail.com	14643566	7964
28	Agra	Annetta Youm	Annetta@gmail.com	54336865	7635
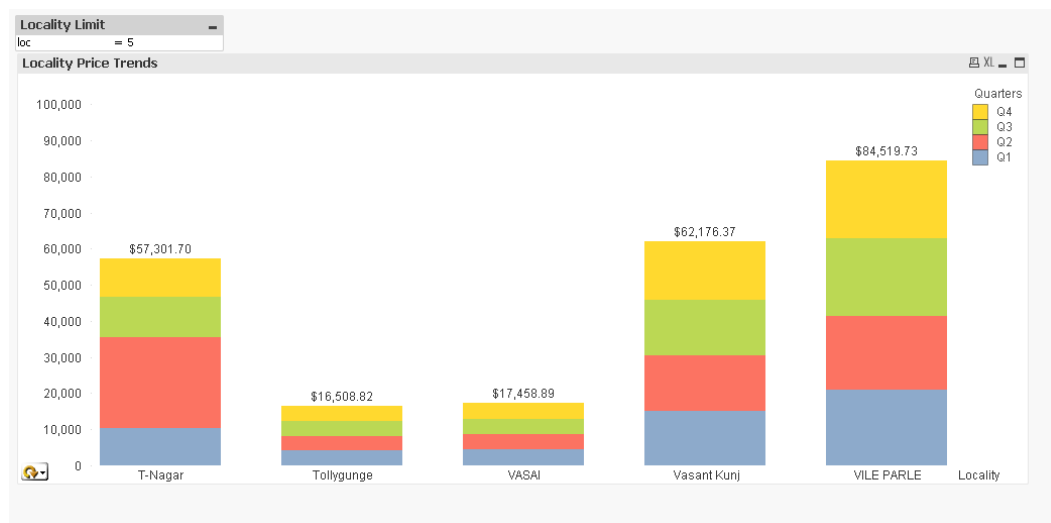
➢ Citywise Price Trends:
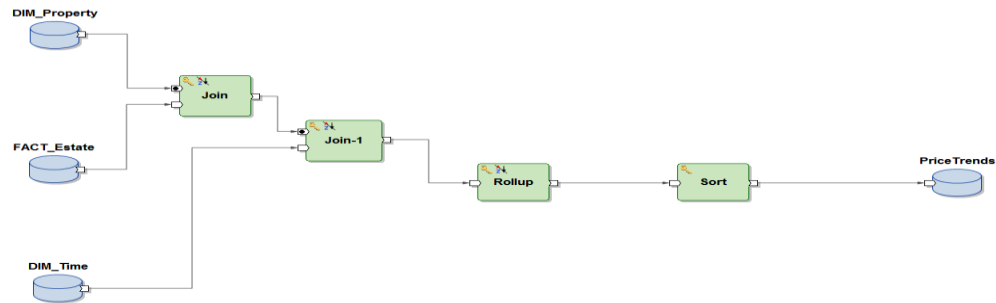
	Locality	Quarter	Avg_sq_ft_cost	sq_ft_co...
1	AIROLI	Q1	20997.8484848...	692929
2	AIROLI	Q2	21307.6461538...	1384997
3	AIROLI	Q3	20940.4	942318
4	AIROLI	Q4	21418.04	1070902
5	Adyar	Q1	13976.5	335436
6	Adyar	Q2	16807.6346153...	873997
7	Adyar	Q3	19119.9230769...	497118
8	Adyar	Q4	16699.5384615...	434188
9	Anna ·Nagar	Q1	23022	598572
10	Anna ·Nagar	Q2	17160.8490566...	909525
11	Anna ·Nagar	Q3	13599.1538461...	353578
12	Anna ·Nagar	Q4	14977.8	374445
13	Aundh	Q1	7422.34782608...	170714
14	Aundh	Q2	8245.73333333...	371058
15	Aundh	Q3	8083.47058823...	137419
16	Aundh	Q4	9031.25	289000
17	BANJARA ·HILLS	Q1	64123.1538461...	1667202
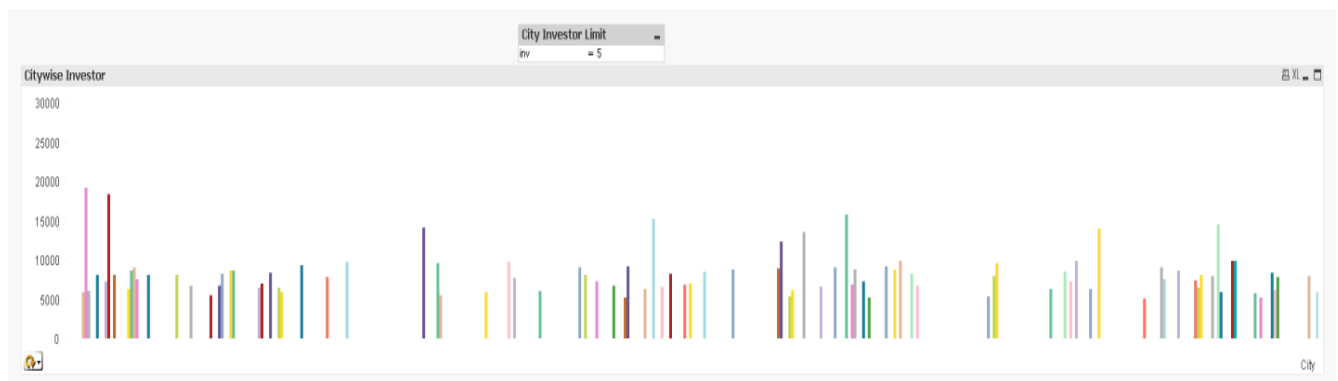
➢ No of Investors annually for every city:
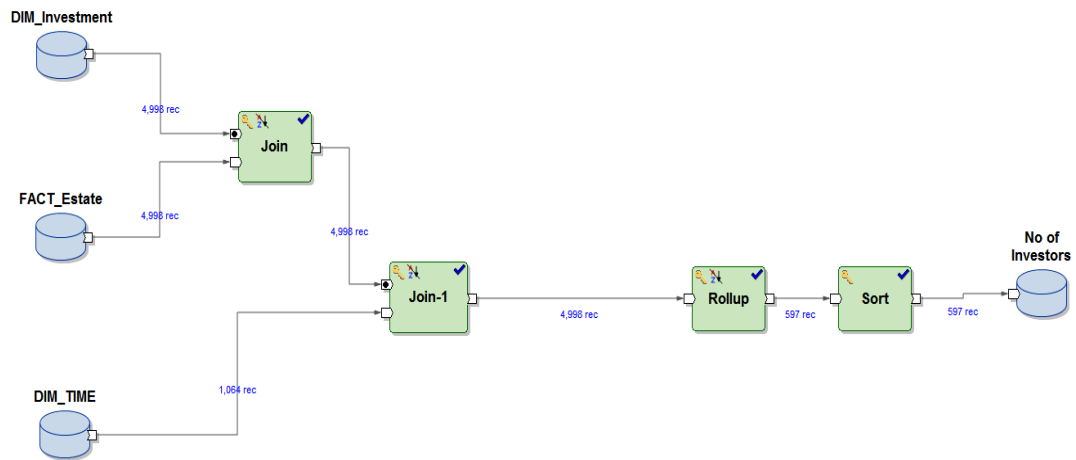
	City	Year	N...
1	Agartala	1911	9
2	Agartala	1912	8
3	Agartala	1913	7
4	Agra	1911	9
5	Agra	1912	10
6	Agra	1913	8
7	Ahmedabad	1911	7
8	Ahmedabad	1912	12
9	Ahmedabad	1913	8
10	Ahmednagar	1911	10
11	Ahmednagar	1912	10
12	Ahmednagar	1913	6
13	Aizwal	1911	7
14	Aizwal	1912	11
15	Aizwal	1913	7
16	Ajmer	1911	8
17	Ajmer	1912	10
18	Ajmer	1913	8