Title Date

Name

Department Etihad Airways





Agenda



Task Breakdown

Hypothetical Problem Statement

Insights

Conclusion/Demo

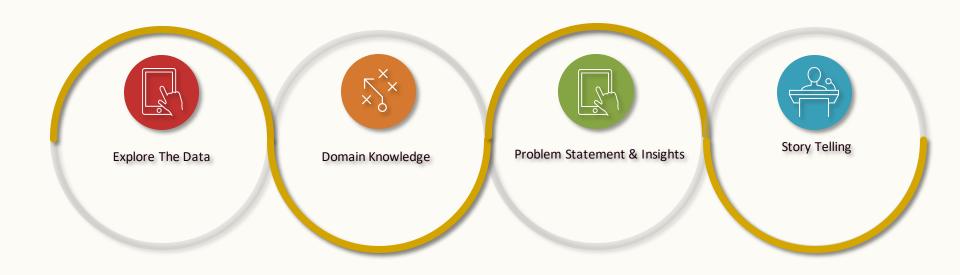
Recommendations





Task Breakdown





Sample Data was provided to build insights story for a Problem Statement

Provided Data





Metro Political Data of 5 Cities from Australia

Available Data Metro political Data- 20 Attributes



Minimum /Maximum	Rain Fall	Evaporation	Sunshine
Temperature	Quantity		Hours
9AM / 3PM	Speed Of	Time of	9 AM / 3PM
Wind Direction	Wind	Maximum Wind	Temperature
9AM / 3PM Humidity	Cloud Amount	Atmospheric Pressure	Day Month Year



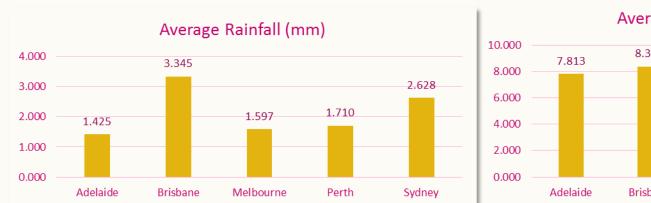
Right Information At Right Time

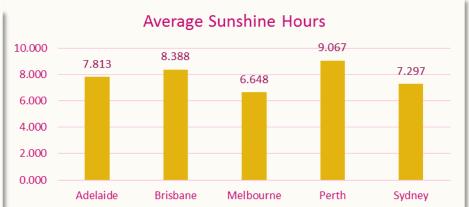


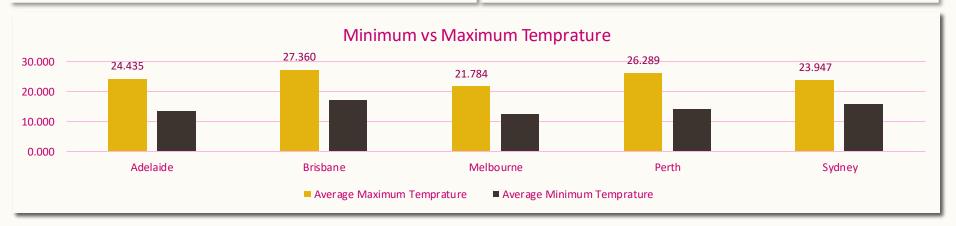
Which City has best weather? if I am a Rain Lover and Visiting in January

Build an insights catalogue to support a travel guide that which city should recommended as per tourists preference



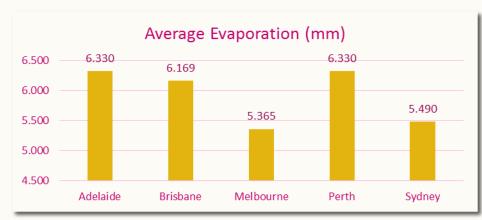


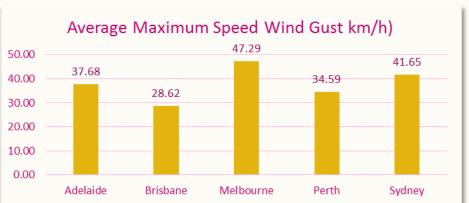


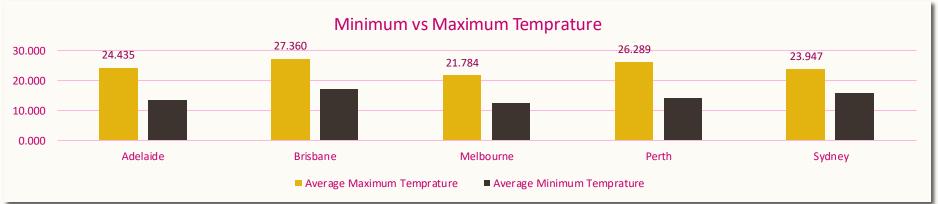


Brisbane have relatively Higher Rainfall, Higher Temperatures & Higher sunshine hours



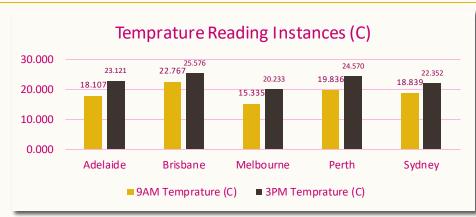


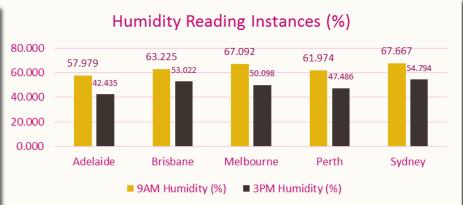


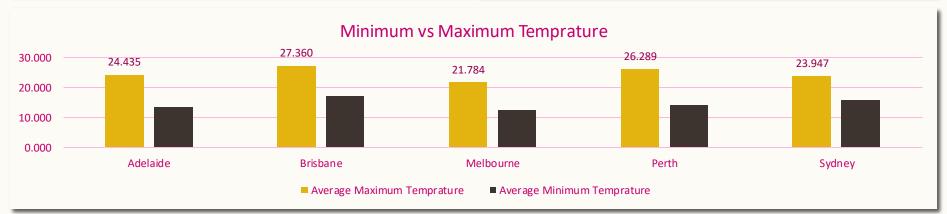


A direct correlation between Wind speed, Temperature & Evaporation of City (Brisbane & Melbourne)



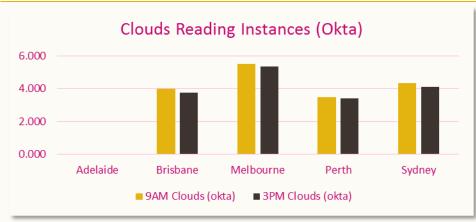




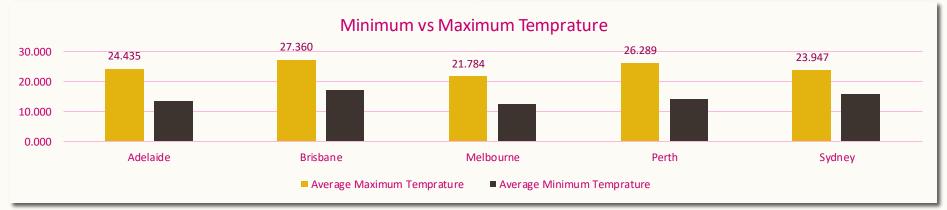


Higher the Temprature lower the humidity 9 AM vs 3PM



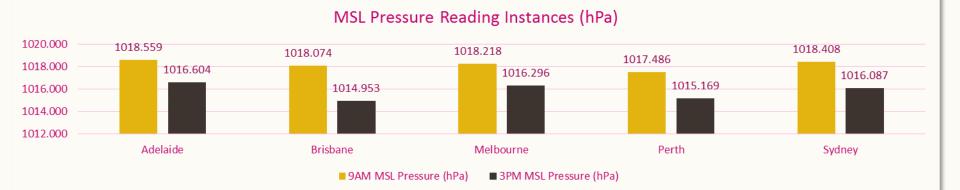


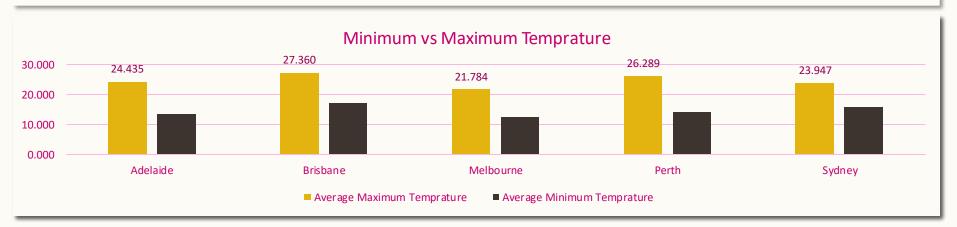




Clouds, Wind & Temperature have direct correlation (Brisbane & Melbourne)







Higher MSL Pressure means weather would remain fair and calm

Suggestions for Tourist Guide



Adelaide

Should be Recommended to those
Who don't like Rain & are looking
For a Fair and Calm Weather
& have less interest in windy Weather

Melbourne

Should be Recommended to those
Who like don't Rain & Higher Temperature
& have inclination towards windy weather
& don't like sunny weather & inclined
toward cloudy weather

Brisbane

Should be Recommended to those Who like Rain & Higher Temperature & have inclination towards sunny weather

Perth

Should be Recommended to those Who don't like Rain & likes Sunny Weather

Sydney

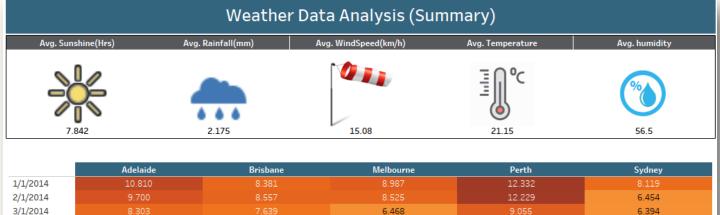
Should be recommended to those who likes mediocre weather from all aspects



We Still haven't Answered January part

Tabelue





	Adelaide	Brisbane	Melbourne	Perth	Sydney
1/1/2014	10.810	8.381	8.987	12.332	8.119
2/1/2014	9.700	8.557	8.525	12.229	6.454
3/1/2014	8.303	7.639	6.468	9.055	6.394
4/1/2014	6.838	8.360	4.650	8.490	5.437
5/1/2014	5.457	7.210	4.258	4.687	7.526
6/1/2014	3.693	7.437	3.277	6.440	6.373
7/1/2014	3.565	8.929	4.484	5.877	7.448
8/1/2014	7.752	7.471	5.245	6.910	6.374
9/1/2014	7.570	9.383	6.797	7.370	8.200
10/1/2014	9.377	10.255	7.374	9.781	8.342
11/1/2014	9.537	9.810	8.397	10.537	8.553
12/1/2014	10.267	8.048	8.665	12.055	7.143
1/1/2015	9.294		8.284	11.484	8.310
2/1/2015	-	8.414	8.177	10.032	7.405

For further correlation findings between Time and Temperature using Tablue

	Adelaide	Brisbane	Melbourne	Perth	Sydney
1/1/2014	10.810	8.381	8.987	12.332	8.119
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Average Sunny Hours a Day

Sunny hours in a Day are different for different Cities & Perth have extreme monthly variation i.e. Summer vs Winter. In January Brisbane have the Sydney have the lowest sunny hours

	Adelaide	Brisbane	Melbourne	Perth	Sydney
1/1/2014	0.35	4.64	0.59	0.01	0.56
2/1/2014	3.51	0.59	1.07	0.00	2.08
3/1/2014	0.73	5.30	1.05	0.24	3.31
4/1/2014	1.69	0.47	3.49	0.82	4.03
5/1/2014	2.39	0.95	1.41	4.92	0.88
6/1/2014	3.47	0.54	2.43	3.12	2.27
7/1/2014	3.21	0.46	0.86	4.88	0.53
8/1/2014	0.67	3.11	1.55	3.45	6.94
9/1/2014	1.05	0.92	1.27	2.57	1.74
10/1/2014	0.16	0.19	1.68	1.19	2.79
11/1/2014	0.84	4.73	3.14	0.79	0.59
12/1/2014	0.23	4.01	1.36	0.00	3.81
1/1/2015	1.34	10.75	0.93	0.60	5.35
2/1/2015	0.00	12.37	-	1.02	1.20

Average Rain in a Day

Brisban have completely different rain cycle as compared to other cities i.e. in most of the cities usually rain happens in Mid of year but in Brispane its at the end of the year or at the start of the year.

Month vs Wind Speed in a Day



	Adelaide	Brisbane	Melbourne	Perth	Sydney
1/1/2014	14.16	11.65	24.98	15.53	17.68
2/1/2014	14.25	11.13	21.59	14.45	17.43
3/1/2014	12.42	9.95	19.68	14.17	14.41
4/1/2014	13.29	7.10	21.62	10.92	15.52
5/1/2014	11.31	8.05	22.10	9.87	16.15
6/1/2014	14.04	7.59	23.66	9.73	17.70
7/1/2014	14.49	7.67	24.80	10.97	18.50
8/1/2014	11.77	9.07	16.80	11.27	18.68
9/1/2014	16.49	9.08	23.25	12.47	17.90
10/1/2014	14.10	10.03	22.45	13.40	18.31
11/1/2014	14.21	10.05	22.45	14.13	18.70
12/1/2014	14.44	8.64	19.50	15.68	18.26
1/1/2015	14.90	9.62	23.93	14.31	17.05
2/1/2015	13.43	10.53	20.76	12.73	16.40

Average Wind Speed in a Day

Wind speeds in Melbourne are the highest across all the cities & Brisbane with lowest wind speed. And there doesn't exit any particular monthly cycle w.r.t. wind speed in a day

Month vs Temperature in a Day

	Adelaide	Brisbane	Melbourne	Perth	Sydney
1/1/2014	25.52	26.09	22.84	25.59	23.33
2/1/2014	23.80	25.71	22.56	25.93	23.06
3/1/2014	21.27	24.66	20.36	23.99	22.76
4/1/2014	18.16	23.03	17.21	20.29	19.85
5/1/2014	16.42	19.72	15.21	16.91	18.12
6/1/2014	12.84	17.95	12.79	13.55	15.31
7/1/2014	11.75	15.45	11.52	13.72	13.93
8/1/2014	12.09	17.28	12.05	15.95	13.98
9/1/2014	15.85	19.05	14.68	16.67	17.11
10/1/2014	19.06	22.22	17.01	18.50	19.92
11/1/2014	20.64	25.12	18.56	20.09	21.90
12/1/2014	21.19	25.55	20.11	22.32	22.48
1/1/2015	23.10	26.47	22.57	25.61	23.98
2/1/2015	25.61	24.55		25.21	23.73

Average Temperature in a Day

Usually start and end of the year are the highest temperature seasons & Mid of the years are lowest temperature days across all the cities



Which City I should Visit? If I am a Rain Lover and Visiting in January

Brisbane is the city, which tourists should visit in January if they are a rain lovers

