

## POWER BI – ASSIGNMENT 6

### 1. Created a new column named Purchase cost.

Dattu's Assignment 6 - Power BI Desktop

File Home Help Table tools Column tools

Name: Purchase Cost

Data type: Decimal number

Format: General

Summarization: Sum

Data category: Uncategorized

Sort by column: Sort

Data groups: Groups

Manage relationships: Relationships

New column: Calculations

Structure: 1 Purchase Cost = Purchase[Quantity] \* Purchase[Price]

PurchaseId	PurchaseDate	PurchaseDateTime	ProductId	Centred	Quantity	Price	PaymentDate	StaffId	Purchase Cost	Affordability
15763	Wednesday, January 4, 2017	04-Jan-17 2:54:00 PM	1	252	2	8.5	NULL	4644	17	Expensive
16093	Saturday, January 7, 2017	07-Jan-17 12:44:00 PM	1	341	2	8.5	NULL	5573	17	Expensive
17158	Friday, January 13, 2017	13-Jan-17 6:05:00 PM	1	360	2	8.5	NULL	5182	17	Expensive
17637	Tuesday, January 17, 2017	17-Jan-17 3:40:00 PM	1	309	2	8.5	NULL	4922	17	Expensive
17851	Thursday, January 19, 2017	19-Jan-17 12:29:00 PM	1	270	2	8.5	NULL	4719	17	Expensive
18325	Monday, January 23, 2017	23-Jan-17 4:58:00 PM	1	326	2	8.5	NULL	4991	17	Expensive
18927	Sunday, January 29, 2017	29-Jan-17 10:26:00 AM	1	331	2	8.5	NULL	5027	17	Expensive
19027	Monday, January 30, 2017	30-Jan-17 6:24:00 PM	1	383	2	8.5	NULL	5296	17	Expensive
19052	Tuesday, January 31, 2017	31-Jan-17 4:34:00 PM	1	255	2	8.5	NULL	4664	17	Expensive
19271	Wednesday, February 1, 2017	01-Feb-17 4:55:00 PM	1	375	2	8.5	NULL	5380	17	Expensive
19273	Wednesday, February 1, 2017	01-Feb-17 5:06:00 PM	1	251	2	8.5	NULL	4627	17	Expensive
19289	Wednesday, February 1, 2017	01-Feb-17 5:41:00 PM	1	379	2	8.5	NULL	5274	17	Expensive
19398	Wednesday, February 1, 2017	01-Feb-17 4:37:00 PM	1	351	2	8.5	NULL	5519	17	Expensive
19965	Thursday, February 9, 2017	09-Feb-17 3:51:00 PM	1	361	2	8.5	NULL	5469	17	Expensive
20799	Saturday, February 18, 2017	18-Feb-17 2:36:00 PM	1	373	2	8.5	NULL	5235	17	Expensive
20809	Saturday, February 18, 2017	18-Feb-17 3:04:00 PM	1	310	2	8.5	NULL	4930	17	Expensive
21371	Friday, February 24, 2017	24-Feb-17 1:20:00 PM	1	313	2	8.5	NULL	4933	17	Expensive
22311	Monday, March 6, 2017	06-Mar-17 1:18:00 PM	1	250	2	8.5	NULL	4622	17	Expensive
22791	Thursday, March 9, 2017	09-Mar-17 6:06:00 PM	1	382	2	8.5	NULL	5334	17	Expensive
23031	Sunday, March 12, 2017	12-Mar-17 9:02:00 AM	1	236	2	8.5	NULL	4554	17	Expensive
23375	Monday, March 13, 2017	13-Mar-17 1:43:00 PM	1	240	2	8.5	NULL	4571	17	Expensive
23820	Tuesday, March 14, 2017	14-Mar-17 3:24:00 PM	1	379	2	8.5	NULL	5273	17	Expensive
24064	Wednesday, March 15, 2017	15-Mar-17 4:42:00 PM	1	235	2	8.5	NULL	4553	17	Expensive
24078	Wednesday, March 15, 2017	15-Mar-17 6:00:00 PM	1	221	2	8.5	NULL	4474	17	Expensive
24194	Thursday, March 16, 2017	16-Mar-17 11:04:00 AM	1	311	2	8.5	NULL	4931	17	Expensive
24533	Sunday, March 19, 2017	19-Mar-17 5:45:00 PM	1	368	2	8.5	NULL	5208	17	Expensive
25137	Wednesday, March 22, 2017	22-Mar-17 11:04:00 AM	1	310	2	8.5	NULL	4930	17	Expensive
25572	Saturday, March 25, 2017	25-Mar-17 6:38:00 PM	1	357	2	8.5	NULL	5488	17	Expensive

Table: Purchase (32,471 rows) Column: Purchase Cost (174 distinct values)

Fields: Search, HabitatId, Legs, ProductId, ProductionCost, ProductName, Species Type, WeightGrams, Purchase, Affordability, Centred, PaymentDate, Price, ProductId, Purchase Cost, PurchaseDate, PurchaseDateT..., Purchased, Quantity, StaffId, Region, RegionId

### 2. Created a new column named Affordability.

Dattu's Assignment 6 - Power BI Desktop

File Home Help Table tools Column tools

Name: Purchase Cost

Data type: Decimal number

Format: General

Summarization: Sum

Data category: Uncategorized

Sort by column: Sort

Data groups: Groups

Manage relationships: Relationships

New column: Calculations

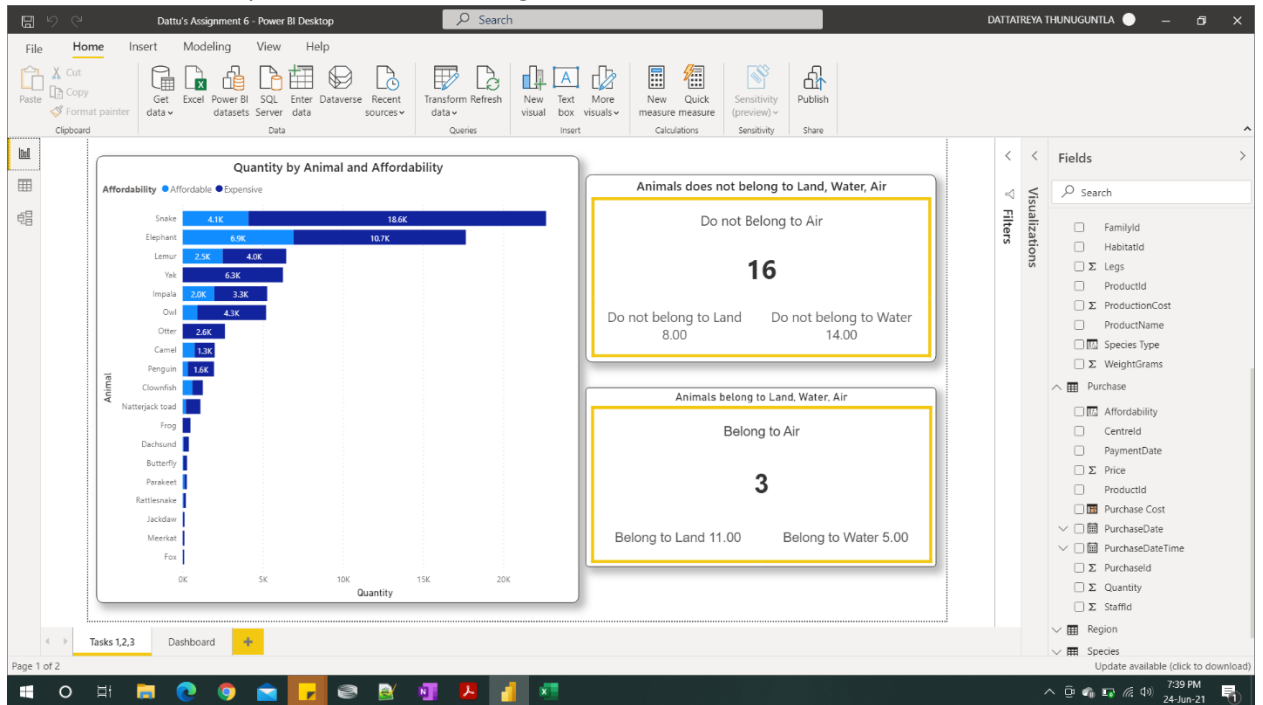
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### 3. Measured how many animals do not belong Air, Water & Land.



**Table: Product (19 rows) Column: Belong to Air (3 distinct values)**

Productid	ProductName	Animal	Habitatid	Legs	FamilyId	WeightGrams	ProductionCost	Species Type
1	Sammy	Snake	1	0	1	950	7.19	Reptile
2	Pokyo	Penguin	4	2	3	850	4.5	Bird
3	Fenella	Frog	3	4	4	400	10.79	Amphibian
4	Layla	Lemur	2	2	5	550	4.28	Mammal
5	Dave	Dachshund	1	4	5	775	5.85	Mammal
6	Kylie	Camel	5	4	5	1200	3.15	Mammal
7	Jeremy	Jackdaw	7	2	3	295	7.65	Bird
8	Faye	Fox	6	4	5	420	4.95	Mammal
9	Oliver	Owl	7	2	3	380	6.75	Bird
10	Cleopatra	Clownfish	4	0	2	290	2.69	Fish
11	Oscar	Otter	3	4	5	340	13.72	Mammal
12	Bob	Butterfly	7	6	6	450	5.85	Insect
13	Englebert	Elephant	1	4	5	1450	3.15	Mammal
14	Petronella	Parakeet	2	2	3	520	4.05	Bird
15	Rheinhardt	Rattlesnake	5	0	1	890	7.65	Reptile
16	Nora	Natterjack toad	3	4	4	560	6.75	Amphibian
17	Yoko	Yak	1	4	5	1350	10.79	Mammal
18	Malcolm	Meerkat	1	4	5	670	14.85	Mammal
19	Imogen	Impala	1	4	5	990	3.59	Mammal

#### 4. Created a new column with region name.

The screenshot shows the Power BI Desktop interface with the 'Column tools' ribbon active. The 'Region\_Area' column is being created, with the formula bar showing `Region_Area = RELATED(Table[RegionName])`. The data table below shows 28 rows of data with columns: TownId, TownName, RegionId, and Region\_Area. The Region\_Area column contains values like 'North West', 'South East', 'East Anglia', etc.

TownId	TownName	RegionId	Region_Area
1	Aintree	5	North West
2	Aldershot	6	South East
3	Altrincham	5	North West
4	Andover	6	South East
5	Ashford	6	South East
6	Ashton Under Lyne	5	North West
7	Aylesbury	6	South East
8	Banbury	6	South East
9	Barhill	1	East Anglia
10	Barking	3	London
11	Barnsley	9	Yorkshire & Humberside
12	Barrow In Furness	4	North
13	Basildon	6	South East
14	Basingstoke	6	South East
15	Bath	7	South West
16	Bedford	6	South East
17	Berkeley	3	London
18	Birkenhead	5	North West
19	Birmingham	8	West Midlands
20	Blackburn	5	North West
21	Bolton	5	North West
22	Bootle	5	North West
23	Borehamwood	6	South East
24	Bournemouth	7	South West
25	Bracknell	6	South East
26	Bradford	9	Yorkshire & Humberside
27	Braintree	6	South East
28	Brighton	6	South East

#### Final Dashboard

The final dashboard displays several key metrics and visualizations:

- LIFE SCIENCES** section with four cards:
  - 3: Belong to Air
  - 16: Do not belong to Air
  - 8: Do not belong to Land
  - 14: Do not belong to Water
- World Map** showing the distribution of species across different regions.
- Purchase Cost by Year** line chart showing an upward trend from 2016 to 2020.
- Purchase Cost by Affordability** pie chart showing the distribution of purchase costs by affordability level.
- Filters** on the right side for FamilyId, HabitatId, Legs, ProductId, ProductionCost, ProductName, Species Type, WeightGrams, Purchase, Affordability, Centred, PaymentDate, Price, Product, PurchaseCost, PurchaseDate, PurchaseDateTime, PurchaseId, Quantity, StaffId, Region, and Species.