

Power BI Assignment 2 – DAX & Data Visualization

Calculated Columns:

- Calculated Column for 'Category Type':

The screenshot shows the Power BI Data View with a table named 'Sales'. A new calculated column, 'Category Type', has been added. The column contains values like 'Food', 'Beverage', 'Dairy', 'Meat', 'Produce', etc., based on the 'Product Name' column. The 'Sales' table has columns: Order ID, Product Name, Quantity, Price, Total Price, and Date. The 'Category Type' column is highlighted in green.

Order ID	Product Name	Quantity	Price	Total Price	Date	Category Type
10001	Apple	10	1.2	12.00	2023-01-01	Produce
10002	Banana	20	0.8	16.00	2023-01-02	Produce
10003	Orange	15	1.5	22.50	2023-01-03	Produce
10004	Apple	5	2.4	12.00	2023-01-04	Produce
10005	Banana	10	1.6	16.00	2023-01-05	Produce
10006	Orange	20	1.2	24.00	2023-01-06	Produce
10007	Apple	10	2.4	24.00	2023-01-07	Produce
10008	Banana	20	0.8	16.00	2023-01-08	Produce
10009	Orange	15	1.5	22.50	2023-01-09	Produce
10010	Apple	5	2.4	12.00	2023-01-10	Produce
10011	Banana	10	1.6	16.00	2023-01-11	Produce
10012	Orange	20	1.2	24.00	2023-01-12	Produce
10013	Apple	10	2.4	24.00	2023-01-13	Produce
10014	Banana	20	0.8	16.00	2023-01-14	Produce
10015	Orange	15	1.5	22.50	2023-01-15	Produce
10016	Apple	5	2.4	12.00	2023-01-16	Produce
10017	Banana	10	1.6	16.00	2023-01-17	Produce
10018	Orange	20	1.2	24.00	2023-01-18	Produce
10019	Apple	10	2.4	24.00	2023-01-19	Produce
10020	Banana	20	0.8	16.00	2023-01-20	Produce
10021	Orange	15	1.5	22.50	2023-01-21	Produce
10022	Apple	5	2.4	12.00	2023-01-22	Produce
10023	Banana	10	1.6	16.00	2023-01-23	Produce
10024	Orange	20	1.2	24.00	2023-01-24	Produce
10025	Apple	10	2.4	24.00	2023-01-25	Produce
10026	Banana	20	0.8	16.00	2023-01-26	Produce
10027	Orange	15	1.5	22.50	2023-01-27	Produce
10028	Apple	5	2.4	12.00	2023-01-28	Produce
10029	Banana	10	1.6	16.00	2023-01-29	Produce
10030	Orange	20	1.2	24.00	2023-01-30	Produce
10031	Apple	10	2.4	24.00	2023-01-31	Produce
10032	Banana	20	0.8	16.00	2023-02-01	Produce
10033	Orange	15	1.5	22.50	2023-02-02	Produce
10034	Apple	5	2.4	12.00	2023-02-03	Produce
10035	Banana	10	1.6	16.00	2023-02-04	Produce
10036	Orange	20	1.2	24.00	2023-02-05	Produce
10037	Apple	10	2.4	24.00	2023-02-06	Produce
10038	Banana	20	0.8	16.00	2023-02-07	Produce
10039	Orange	15	1.5	22.50	2023-02-08	Produce
10040	Apple	5	2.4	12.00	2023-02-09	Produce
10041	Banana	10	1.6	16.00	2023-02-10	Produce
10042	Orange	20	1.2	24.00	2023-02-11	Produce
10043	Apple	10	2.4	24.00	2023-02-12	Produce
10044	Banana	20	0.8	16.00	2023-02-13	Produce
10045	Orange	15	1.5	22.50	2023-02-14	Produce
10046	Apple	5	2.4	12.00	2023-02-15	Produce
10047	Banana	10	1.6	16.00	2023-02-16	Produce
10048	Orange	20	1.2	24.00	2023-02-17	Produce
10049	Apple	10	2.4	24.00	2023-02-18	Produce
10050	Banana	20	0.8	16.00	2023-02-19	Produce
10051	Orange	15	1.5	22.50	2023-02-20	Produce
10052	Apple	5	2.4	12.00	2023-02-21	Produce
10053	Banana	10	1.6	16.00	2023-02-22	Produce
10054	Orange	20	1.2	24.00	2023-02-23	Produce
10055	Apple	10	2.4	24.00	2023-02-24	Produce
10056	Banana	20	0.8	16.00	2023-02-25	Produce
10057	Orange	15	1.5	22.50	2023-02-26	Produce
10058	Apple	5	2.4	12.00	2023-02-27	Produce
10059	Banana	10	1.6	16.00	2023-02-28	Produce
10060	Orange	20	1.2	24.00	2023-02-29	Produce
10061	Apple	10	2.4	24.00	2023-03-01	Produce
10062	Banana	20	0.8	16.00	2023-03-02	Produce
10063	Orange	15	1.5	22.50	2023-03-03	Produce
10064	Apple	5	2.4	12.00	2023-03-04	Produce
10065	Banana	10	1.6	16.00	2023-03-05	Produce
10066	Orange	20	1.2	24.00	2023-03-06	Produce
10067	Apple	10	2.4	24.00	2023-03-07	Produce
10068	Banana	20	0.8	16.00	2023-03-08	Produce
10069	Orange	15	1.5	22.50	2023-03-09	Produce
10070	Apple	5	2.4	12.00	2023-03-10	Produce
10071	Banana	10	1.6	16.00	2023-03-11	Produce
10072	Orange	20	1.2	24.00	2023-03-12	Produce
10073	Apple	10	2.4	24.00	2023-03-13	Produce
10074	Banana	20	0.8	16.00	2023-03-14	Produce
10075	Orange	15	1.5	22.50	2023-03-15	Produce
10076	Apple	5	2.4	12.00	2023-03-16	Produce
10077	Banana	10	1.6	16.00	2023-03-17	Produce
10078	Orange	20	1.2	24.00	2023-03-18	Produce
10079	Apple	10	2.4	24.00	2023-03-19	Produce
10080	Banana	20	0.8	16.00	2023-03-20	Produce
10081	Orange	15	1.5	22.50	2023-03-21	Produce
10082	Apple	5	2.4	12.00	2023-03-22	Produce
10083	Banana	10	1.6	16.00	2023-03-23	Produce
10084	Orange	20	1.2	24.00	2023-03-24	Produce
10085	Apple	10	2.4	24.00	2023-03-25	Produce
10086	Banana	20	0.8	16.00	2023-03-26	Produce
10087	Orange	15	1.5	22.50	2023-03-27	Produce
10088	Apple	5	2.4	12.00	2023-03-28	Produce
10089	Banana	10	1.6	16.00	2023-03-29	Produce
10090	Orange	20	1.2	24.00	2023-03-30	Produce
10091	Apple	10	2.4	24.00	2023-03-31	Produce
10092	Banana	20	0.8	16.00	2023-04-01	Produce
10093	Orange	15	1.5	22.50	2023-04-02	Produce
10094	Apple	5	2.4	12.00	2023-04-03	Produce
10095	Banana	10	1.6	16.00	2023-04-04	Produce
10096	Orange	20	1.2	24.00	2023-04-05	Produce
10097	Apple	10	2.4	24.00	2023-04-06	Produce
10098	Banana	20	0.8	16.00	2023-04-07	Produce
10099	Orange	15	1.5	22.50	2023-04-08	Produce
10100	Apple	5	2.4	12.00	2023-04-09	Produce

- Revenue per Order

Order ID	Product Name	Quantity	Price	Total Price	Date	Revenue per Order
10001	Apple	10	1.2	12.00	2023-01-01	12.00
10002	Banana	20	0.8	16.00	2023-01-02	16.00
10003	Orange	15	1.5	22.50	2023-01-03	22.50
10004	Apple	5	2.4	12.00	2023-01-04	12.00
10005	Banana	10	1.6	16.00	2023-01-05	16.00
10006	Orange	20	1.2	24.00	2023-01-06	24.00
10007	Apple	10	2.4	24.00	2023-01-07	24.00
10008	Banana	20	0.8	16.00	2023-01-08	16.00
10009	Orange	15	1.5	22.50	2023-01-09	22.50
10010	Apple	5	2.4	12.00	2023-01-10	12.00
10011	Banana	10	1.6	16.00	2023-01-11	16.00
10012	Orange	20	1.2	24.00	2023-01-12	24.00
10013	Apple	10	2.4	24.00	2023-01-13	24.00
10014	Banana	20	0.8	16.00	2023-01-14	16.00
10015	Orange	15	1.5	22.50	2023-01-15	22.50
10016	Apple	5	2.4	12.00	2023-01-16	12.00
10017	Banana	10	1.6	16.00	2023-01-17	16.00
10018	Orange	20	1.2	24.00	2023-01-18	24.00
10019	Apple	10	2.4	24.00	2023-01-19	24.00
10020	Banana	20	0.8	16.00	2023-01-20	16.00
10021	Orange	15	1.5	22.50	2023-01-21	22.50
10022	Apple	5	2.4	12.00	2023-01-22	12.00
10023	Banana	10	1.6	16.00	2023-01-23	16.00
10024	Orange	20	1.2	24.00	2023-01-24	24.00
10025	Apple	10	2.4	24.00	2023-01-25	24.00
10026	Banana	20	0.8	16.00	2023-01-26	16.00
10027	Orange	15	1.5	22.50	2023-01-27	22.50
10028	Apple	5	2.4	12.00	2023-01-28	12.00
10029	Banana	10	1.6	16.00	2023-01-29	16.00
10030	Orange	20	1.2	24.00	2023-01-30	24.00
10031	Apple	10	2.4	24.00	2023-01-31	24.00
10032	Banana	20	0.8	16.00	2023-02-01	16.00
10033	Orange	15	1.5	22.50	2023-02-02	22.50
10034	Apple	5	2.4	12.00	2023-02-03	12.00
10035	Banana	10	1.6	16.00	2023-02-04	16.00
10036	Orange	20	1.2	24.00	2023-02-05	24.00
10037	Apple	10	2.4	24.00	2023-02-06	24.00
10038	Banana	20	0.8	16.00	2023-02-07	16.00
10039	Orange	15	1.5	22.50	2023-02-08	22.50
10040	Apple	5	2.4	12.00	2023-02-09	12.00
10041	Banana	10	1.6	16.00	2023-02-10	16.00
10042	Orange	20	1.2	24.00	2023-02-11	24.00
10043	Apple	10	2.4	24.00	2023-02-12	24.00
10044	Banana	20	0.8	16.00	2023-02-13	16.00
10045	Orange	15	1.5	22.50	2023-02-14	22.50
10046	Apple	5	2.4	12.00	2023-02-15	12.00
10047	Banana	10	1.6	16.00	2023-02-16	16.00
10048	Orange	20	1.2	24.00	2023-02-17	24.00
10049	Apple	10	2.4	24.00	2023-02-18	24.00
10050	Banana	20	0.8	16.00	2023-02-19	16.00
10051	Orange	15	1.5	22.50	2023-02-20	22.50
10052	Apple	5	2.4	12.00	2023-02-21	12.00
10053	Banana	10	1.6	16.00	2023-02-22	16.00
10054	Orange	20	1.2	24.00	2023-02-23	24.00
10055	Apple	10	2.4	24.00	2023-02-24	24.00
10056	Banana	20	0.8	16.00	2023-02-25	16.00
10057	Orange	15	1.5	22.50	2023-02-26	22.50
10058	Apple	5	2.4	12.00	2023-02-27	12.00
10059	Banana	10	1.6	16.00	2023-02-28	16.00
10060	Orange	20	1.2	24.00	2023-02-29	24.00
10061	Apple	10	2.4	24.00	2023-03-01	24.00
10062	Banana	20	0.8	16.00	2023-03-02	16.00
10063	Orange	15	1.5	22.50	2023-03-03	22.50
10064	Apple	5	2.4	12.00	2023-03-04	12.00
10065	Banana	10	1.6	16.00	2023-03-05	16.00
10066	Orange	20	1.2	24.00	2023-03-06	24.00
10067	Apple	10	2.4	24.00	2023-03-07	24.00
10068	Banana	20	0.8	16.00	2023-03-08	16.00
10069	Orange	15	1.5	22.50	2023-03-09	22.50
10070	Apple	5	2.4	12.00	2023-03-10	12.00
10071	Banana	10	1.6	16.00	2023-03-11	16.00
10072	Orange	20	1.2	24.00	2023-03-12	24.00
10073	Apple	10	2.4	24.00	2023-03-13	24.00
10074	Banana	20	0.8	16.00	2023-03-14	16.00
10075	Orange	15	1.5	22.50	2023-03-15	22.50
10076	Apple	5	2.4	12.00	2023-03-16	12.00
10077	Banana	10	1.6	16.00	2023-03-17	16.00
10078	Orange	20	1.2	24.00	2023-03-18	24.00
10079	Apple	10	2.4	24.00	2023-03-19	24.00
10080	Banana	20	0.8	16.00	2023-03-20	16.00
10081	Orange	15	1.5	22.50	2023-03-21	22.50
10082	Apple	5	2.4	12.00	2023-03-22	12.00
10083	Banana	10	1.6	16.00	2023-03-23	16.00
10084	Orange	20	1.2	24.00	2023-03-24	24.00
10085	Apple	10	2.4	24.00	2023-03-25	24.00
10086	Banana	20	0.8	16.00	2023-03-26	16.00
10087	Orange	15	1.5	22.50	2023-03-27	22.50
10088	Apple	5	2.4	12.00	2023-03-28	12.00
10089	Banana	10	1.6	16.00	2023-03-29	16.00
10090	Orange	20	1.2	24.00	2023-03-30	24.00
10091	Apple	10	2.4	24.00	2023-03-31	24.00
10092	Banana	20	0.8	16.00	2023-04-01	16.00
10093	Orange	15	1.5	22.50	2023-04-02	22.50
10094	Apple	5	2.4	12.00	2023-04-03	12.00
10095	Banana	10	1.6	16.00	2023-04-04	16.00
10096	Orange	20	1.2	24.00	2023-04-05	24.00
10097	Apple	10	2.4	24.00	2023-04-06	24.00
10098	Banana	20	0.8	16.00	2023-04-07	16.00
10099	Orange	15	1.5	22.50	2023-04-08	22.50
10100	Apple	5	2.4	12.00	2023-04-09	12.00

Calculated Measures:

- Order Count:

Employee Salary Data							
Employee ID	Employee Name	Job	Salary	Commission	Department	Manager	Start Date
1000	John Deere	Developer	12000	0.10	IT	1010	2018-01-01
1001	Jane Smith	Developer	11000	0.09	IT	1010	2018-02-01
1002	Mike Jones	Developer	10000	0.08	IT	1010	2018-03-01
1003	Sarah Lee	Developer	9000	0.07	IT	1010	2018-04-01
1004	David Kim	Developer	8000	0.06	IT	1010	2018-05-01
1005	Emily White	Developer	7000	0.05	IT	1010	2018-06-01
1006	James Brown	Developer	6000	0.04	IT	1010	2018-07-01
1007	Alice Green	Developer	5000	0.03	IT	1010	2018-08-01
1008	Bob Black	Developer	4000	0.02	IT	1010	2018-09-01
1009	Charlie Gray	Developer	3000	0.01	IT	1010	2018-10-01
1010	David King	Developer	2000	0.00	IT	1010	2018-11-01
1011	Eve Black	Developer	1500	0.00	IT	1010	2018-12-01
1012	Frank White	Developer	1000	0.00	IT	1010	2019-01-01
1013	Grace Green	Developer	800	0.00	IT	1010	2019-02-01
1014	Henry Black	Developer	600	0.00	IT	1010	2019-03-01
1015	Ivy White	Developer	400	0.00	IT	1010	2019-04-01
1016	Jack Green	Developer	200	0.00	IT	1010	2019-05-01
1017	Karen Black	Developer	100	0.00	IT	1010	2019-06-01
1018	Liam White	Developer	50	0.00	IT	1010	2019-07-01
1019	Mia Green	Developer	25	0.00	IT	1010	2019-08-01
1020	Noah Black	Developer	12	0.00	IT	1010	2019-09-01
1021	Olivia White	Developer	6	0.00	IT	1010	2019-10-01
1022	Peter Green	Developer	3	0.00	IT	1010	2019-11-01
1023	Quinn Black	Developer	1	0.00	IT	1010	2019-12-01
1024	Rachel White	Developer	0	0.00	IT	1010	2020-01-01
1025	Sam Green	Developer	0	0.00	IT	1010	2020-02-01
1026	Tina Black	Developer	0	0.00	IT	1010	2020-03-01
1027	Uma White	Developer	0	0.00	IT	1010	2020-04-01
1028	Victor Green	Developer	0	0.00	IT	1010	2020-05-01
1029	Wendy Black	Developer	0	0.00	IT	1010	2020-06-01
1030	Xavier White	Developer	0	0.00	IT	1010	2020-07-01
1031	Yara Green	Developer	0	0.00	IT	1010	2020-08-01
1032	Zoe Black	Developer	0	0.00	IT	1010	2020-09-01
1033	Adam White	Developer	0	0.00	IT	1010	2020-10-01
1034	Bella Green	Developer	0	0.00	IT	1010	2020-11-01
1035	Chris Black	Developer	0	0.00	IT	1010	2020-12-01
1036	Diana White	Developer	0	0.00	IT	1010	2021-01-01
1037	Ethan Green	Developer	0	0.00	IT	1010	2021-02-01
1038	Fiona Black	Developer	0	0.00	IT	1010	2021-03-01
1039	George White	Developer	0	0.00	IT	1010	2021-04-01
1040	Helen Green	Developer	0	0.00	IT	1010	2021-05-01
1041	Ian Black	Developer	0	0.00	IT	1010	2021-06-01
1042	Jane White	Developer	0	0.00	IT	1010	2021-07-01
1043	Kevin Green	Developer	0	0.00	IT	1010	2021-08-01
1044	Laura Black	Developer	0	0.00	IT	1010	2021-09-01
1045	Mark White	Developer	0	0.00	IT	1010	2021-10-01
1046	Nancy Green	Developer	0	0.00	IT	1010	2021-11-01
1047	Oscar Black	Developer	0	0.00	IT	1010	2021-12-01
1048	Pamela White	Developer	0	0.00	IT	1010	2022-01-01
1049	Quinn Green	Developer	0	0.00	IT	1010	2022-02-01
1050	Rachel Black	Developer	0	0.00	IT	1010	2022-03-01
1051	Sam White	Developer	0	0.00	IT	1010	2022-04-01
1052	Tina Green	Developer	0	0.00	IT	1010	2022-05-01
1053	Uma Black	Developer	0	0.00	IT	10	

- Average Profit in Delhi:

ID	Product	Unit	Quantity	Category	Sub-Category	Category Type	Product Name	Product Category	Product Sub-Category
0-0001	001	001	1	Fooding	Meat	Fooding-Meat	01001-Meat-Average	Fooding-Meat	01001-Meat-Average
0-0002	001	0	1	Fooding	Meat	Fooding-Meat	01002-Meat-Average	Fooding-Meat	01002-Meat-Average
0-0003	001	000	1	Fooding	Meat	Fooding-Meat	01003-Meat-Average	Fooding-Meat	01003-Meat-Average
0-0004	001	0	1	Fooding	Meat	Fooding-Meat	01004-Meat-Average	Fooding-Meat	01004-Meat-Average
0-0005	001	0	1	Fooding	Meat	Fooding-Meat	01005-Meat-Average	Fooding-Meat	01005-Meat-Average
0-0006	001	0	1	Fooding	Meat	Fooding-Meat	01006-Meat-Average	Fooding-Meat	01006-Meat-Average
0-0007	001	0	1	Fooding	Meat	Fooding-Meat	01007-Meat-Average	Fooding-Meat	01007-Meat-Average
0-0008	001	0	1	Fooding	Meat	Fooding-Meat	01008-Meat-Average	Fooding-Meat	01008-Meat-Average
0-0009	001	000	1	Fooding	Meat	Fooding-Meat	01009-Meat-Average	Fooding-Meat	01009-Meat-Average
0-0010	001	000	1	Fooding	Meat	Fooding-Meat	01010-Meat-Average	Fooding-Meat	01010-Meat-Average
0-0011	001	000	1	Fooding	Meat	Fooding-Meat	01011-Meat-Average	Fooding-Meat	01011-Meat-Average
0-0012	001	000	1	Fooding	Meat	Fooding-Meat	01012-Meat-Average	Fooding-Meat	01012-Meat-Average
0-0013	001	000	1	Fooding	Meat	Fooding-Meat	01013-Meat-Average	Fooding-Meat	01013-Meat-Average
0-0014	001	000	1	Fooding	Meat	Fooding-Meat	01014-Meat-Average	Fooding-Meat	01014-Meat-Average
0-0015	001	000	1	Fooding	Meat	Fooding-Meat	01015-Meat-Average	Fooding-Meat	01015-Meat-Average
0-0016	001	000	1	Fooding	Meat	Fooding-Meat	01016-Meat-Average	Fooding-Meat	01016-Meat-Average
0-0017	001	000	1	Fooding	Meat	Fooding-Meat	01017-Meat-Average	Fooding-Meat	01017-Meat-Average
0-0018	001	000	1	Fooding	Meat	Fooding-Meat	01018-Meat-Average	Fooding-Meat	01018-Meat-Average
0-0019	001	000	1	Fooding	Meat	Fooding-Meat	01019-Meat-Average	Fooding-Meat	01019-Meat-Average
0-0020	001	000	1	Fooding	Meat	Fooding-Meat	01020-Meat-Average	Fooding-Meat	01020-Meat-Average
0-0021	001	000	1	Fooding	Meat	Fooding-Meat	01021-Meat-Average	Fooding-Meat	01021-Meat-Average
0-0022	001	000	1	Fooding	Meat	Fooding-Meat	01022-Meat-Average	Fooding-Meat	01022-Meat-Average
0-0023	001	000	1	Fooding	Meat	Fooding-Meat	01023-Meat-Average	Fooding-Meat	01023-Meat-Average
0-0024	001	000	1	Fooding	Meat	Fooding-Meat	01024-Meat-Average	Fooding-Meat	01024-Meat-Average
0-0025	001	000	1	Fooding	Meat	Fooding-Meat	01025-Meat-Average	Fooding-Meat	01025-Meat-Average
0-0026	001	000	1	Fooding	Meat	Fooding-Meat	01026-Meat-Average	Fooding-Meat	01026-Meat-Average
0-0027	001	000	1	Fooding	Meat	Fooding-Meat	01027-Meat-Average	Fooding-Meat	01027-Meat-Average
0-0028	001	000	1	Fooding	Meat	Fooding-Meat	01028-Meat-Average	Fooding-Meat	01028-Meat-Average
0-0029	001	000	1	Fooding	Meat	Fooding-Meat	01029-Meat-Average	Fooding-Meat	01029-Meat-Average
0-0030	001	000	1	Fooding	Meat	Fooding-Meat	01030-Meat-Average	Fooding-Meat	01030-Meat-Average

- **Year-to-Date (YTD) Sales:**

[illegible]

- Data Modelling:

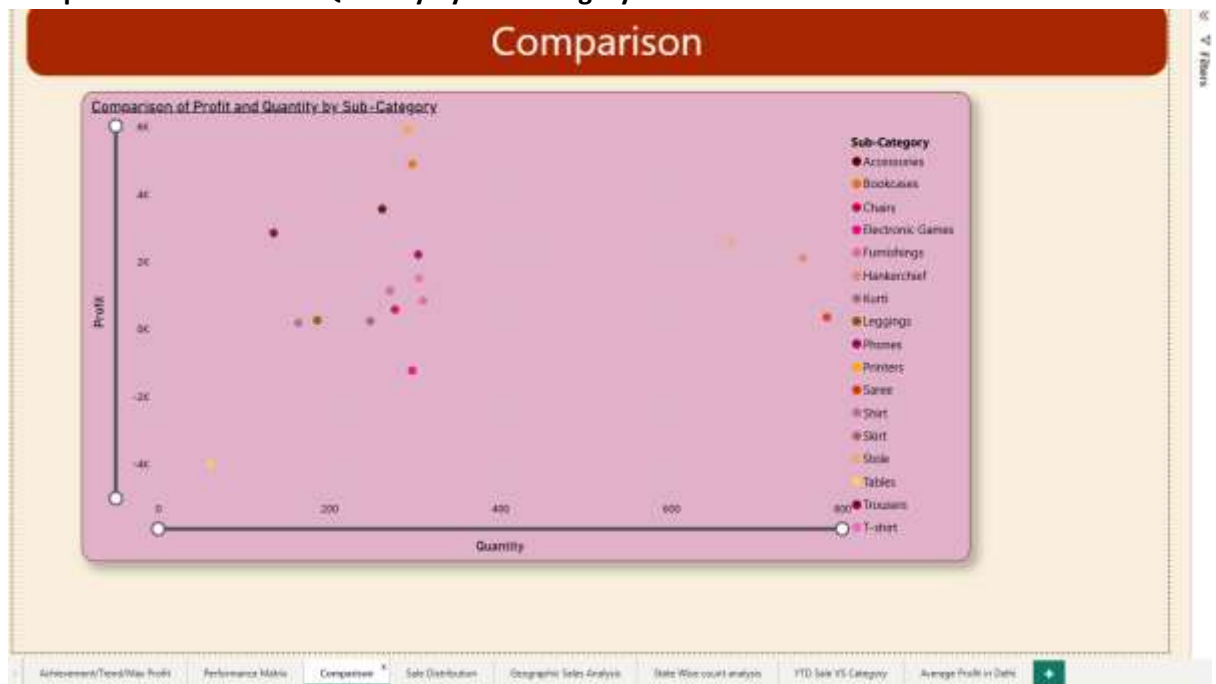


Data Visualization:

- Sales Target Achievement by Category:
- Max Profit Margin by Sub-Category:
- Monthly Sales Trend:



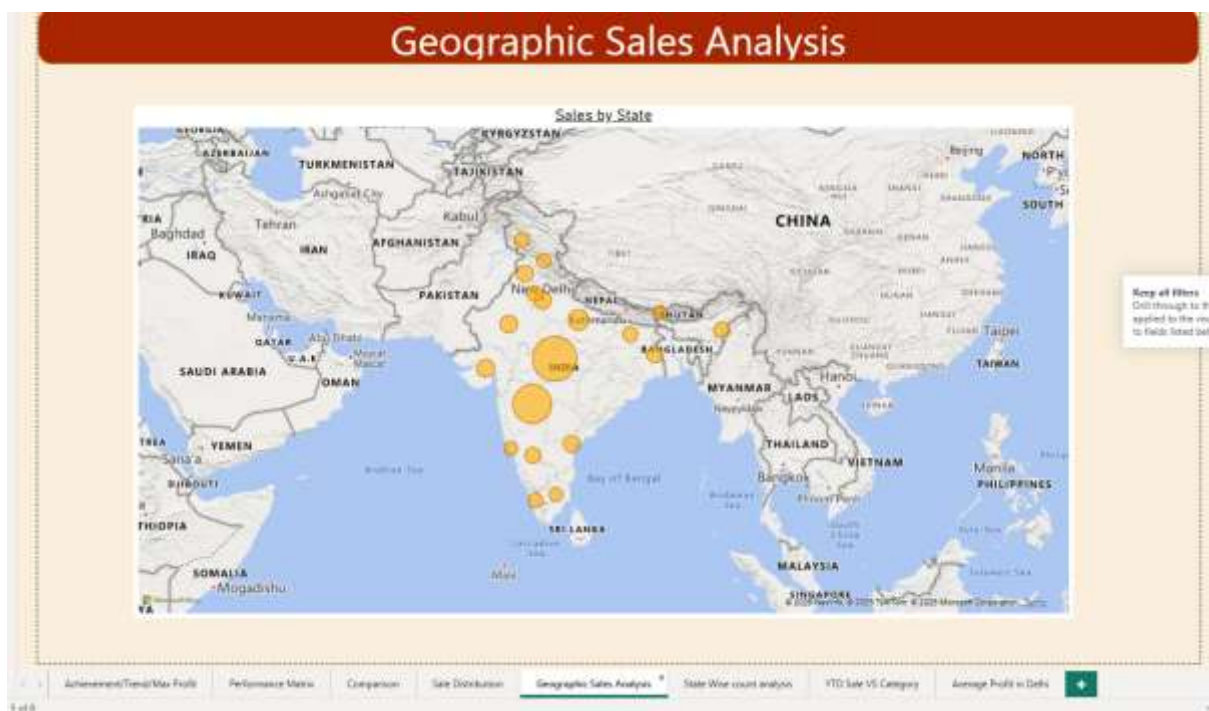
- Comparison of Profit and Quantity by Sub-Category



- Comparison of Total Sales Amount and Target:
- Sales Performance Matrix:



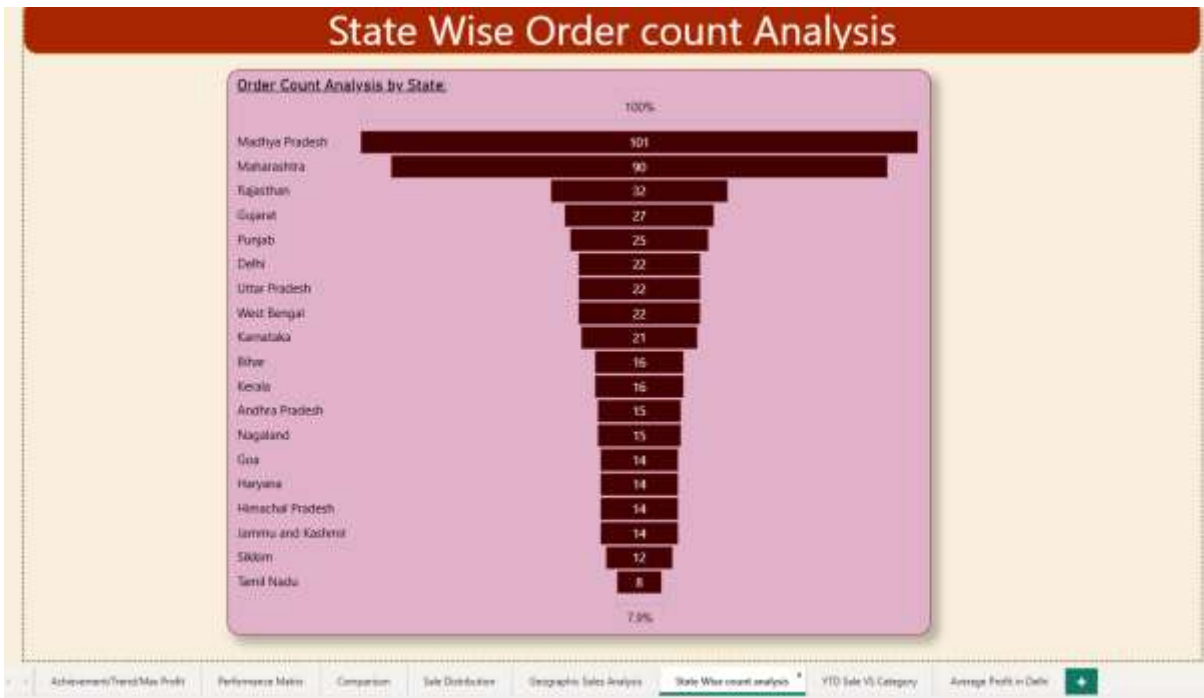
- Geographic Sales Analysis:



- Sales Distribution by Sub-Category:



- Order Count Analysis by State:



Additional Visuals:

- YTD Sale VS Category:



- Average Profit in Delhi

