

PROJECT 1

WALMART SALES ANALYSIS

BATCH – MIP-DA-13

Aryan Kumar Sao

1. Retrieve all columns for sales made in a specific branch (e.g., Branch 'A').

2

SQLQuery1.sql - BT-2205113\SQLEXPRESS.Aryan_project (BT-2205113\KIIT (75))* - Microsoft SQL Server Management Studio

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SQLQuery1.sql - BT...-2205113\KIIT (75))*

```
select * from WalmartData  
Where Branch = 'A';
```

Results

	Invoice_ID	Branch	City	Customer_type	Gender	Product_line	Unit_price	Quantity	Tax_5	Total	Date	Time	Payment	cogs	gross_margin_percentage	gross
1	101-17-6199	A	Yangon	Normal	Male	Food and beverages	45.7900009155273	7	16.0265007019043	336.556488037109	2019-03-13	19:44:00.0000000	Credit card	320.529998779297	4.7619047164917	16.0
2	105-10-6182	A	Yangon	Member	Male	Fashion accessories	21.4799995422363	2	2.1480000190735	45.1080017089844	2019-02-27	12:22:00.0000000	Ewallet	42.9599990844727	4.7619047164917	2.14
3	105-31-1824	A	Yangon	Member	Male	Sports and travel	69.5199966430664	7	24.3320007324219	510.971984863281	2019-02-01	15:10:00.0000000	Credit card	486.640014648438	4.7619047164917	24.3
4	106-35-6779	A	Yangon	Member	Male	Home and lifestyle	44.3400001525879	2	4.43400001525879	93.1139984130859	2019-03-27	11:26:00.0000000	Cash	88.6800003051758	4.7619047164917	4.43
5	123-19-1176	A	Yangon	Member	Male	Health and beauty	58.2200012207031	8	23.2880001068115	489.048004150391	2019-01-27	20:33:00.0000000	Ewallet	465.760009765625	4.7619047164917	23.2
6	124-31-1458	A	Yangon	Member	Female	Electronic accessories	79.5899963378906	3	11.9385004043579	250.70849609375	2019-01-08	14:30:00.0000000	Cash	238.770004272461	4.7619047164917	11.9
7	125-45-2293	A	Yangon	Normal	Female	Fashion accessories	99.0999984741211	6	29.7299995422363	624.330017089844	2019-01-19	13:11:00.0000000	Cash	594.599975585938	4.7619047164917	29.7
8	126-54-1082	A	Yangon	Member	Female	Home and lifestyle	21.5400009155273	9	9.69299983978271	203.552993774414	2019-01-07	11:44:00.0000000	Credit card	193.860000610352	4.7619047164917	9.69
9	127-47-6963	A	Yangon	Normal	Male	Health and beauty	51.7099990844727	4	10.3420000076294	217.182006835938	2019-03-09	13:53:00.0000000	Credit card	206.839996337891	4.7619047164917	10.3
10	129-29-8530	A	Yangon	Member	Male	Sports and travel	62.6199989318848	5	15.6549997329712	328.755004882813	2019-03-10	19:15:00.0000000	Ewallet	313.100006103516	4.7619047164917	15.6
11	130-67-4723	A	Yangon	Member	Male	Food and beverages	48.5	6	14.5500001907349	305.549987792969	2019-01-11	13:57:00.0000000	Ewallet	291	4.7619047164917	14.5
12	131-70-8179	A	Yangon	Member	Female	Health and beauty	92.0899963378906	3	13.8135004043579	290.08349609375	2019-02-17	16:27:00.0000000	Cash	276.269989013672	4.7619047164917	13.8
13	132-23-6451	A	Yangon	Member	Male	Health and beauty	20.9699993133545	5	5.24249982833862	110.092498779297	2019-01-04	13:21:00.0000000	Cash	104.849998474121	4.7619047164917	5.24
14	134-75-2619	A	Yangon	Member	Male	Electronic accessories	19.3199996948242	7	6.76200008392334	142.001998901367	2019-03-25	18:51:00.0000000	Cash	135.240005493164	4.7619047164917	6.76
15	135-84-8019	A	Yangon	Normal	Female	Fashion accessories	77.9300003051758	9	35.0685005187988	736.4384765625	2019-02-27	16:10:00.0000000	Ewallet	701.369995117188	4.7619047164917	35.0
16	136-08-6195	A	Yangon	Normal	Female	Home and lifestyle	69.9599990844727	8	27.9839992523193	587.664001464844	2019-02-15	17:01:00.0000000	Credit card	559.679992675781	4.7619047164917	27.9
17	138-17-5109	A	Yangon	Member	Female	Home and lifestyle	89.2099990844727	9	40.1445007324219	843.034484863281	2019-01-15	15:42:00.0000000	Credit card	802.890014648438	4.7619047164917	40.1
18	139-32-4183	A	Yangon	Member	Female	Sports and travel	97.4800033569336	9	43.8660011291504	921.185974121094	2019-03-14	14:19:00.0000000	Ewallet	877.320007324219	4.7619047164917	43.8
19	144-51-6085	A	Yangon	Member	Male	Home and lifestyle	70.7399978637695	4	14.1479997634888	297.108001708984	2019-01-05	16:05:00.0000000	Credit card	282.959991455078	4.7619047164917	14.1
20	146-09-5432	A	Yangon	Member	Male	Food and beverages	35.0400009155273	9	15.7679996490479	331.127990722656	2019-02-09	19:17:00.0000000	Ewallet	315.359985351563	4.7619047164917	15.7
21	149-61-1929	A	Yangon	Normal	Male	Sports and travel	64.1900024414063	10	32.0950012207031	673.994995117188	2019-01-19	14:08:00.0000000	Credit card	641.900024414063	4.7619047164917	32.0
22	150-89-8043	A	Yangon	Normal	Male	Sports and travel	44.6500015258789	3	6.69750022888184	140.647506713867	2019-02-14	15:04:00.0000000	Cash	133.949996948242	4.7619047164917	6.69
23	151-16-1484	A	Yangon	Member	Male	Electronic accessories	32.25	4	6.44999980926514	135.449996948242	2019-02-13	12:38:00.0000000	Ewallet	129	4.7619047164917	6.44
24	152-68-2907	A	Yangon	Normal	Male	Food and beverages	52.2000007629395	3	7.82999992370605	164.429992675781	2019-02-15	13:30:00.0000000	Credit card	156.600006103516	4.7619047164917	7.82
25	156-95-3964	A	Yangon	Normal	Female	Food and beverages	55.3899993896484	4	11.0780000686646	232.638000488281	2019-03-25	15:19:00.0000000	Ewallet	221.559997558594	4.7619047164917	11.0
26	157-13-5295	A	Yangon	Member	Male	Health and beauty	51.939998626709	10	25.9699993133545	545.369995117188	2019-03-09	18:24:00.0000000	Ewallet	519.400024414063	4.7619047164917	25.9
27	160-22-2687	A	Yangon	Member	Female	Health and beauty	95.9499969482422	5	23.9874992370605	503.737487792969	2019-01-23	14:21:00.0000000	Ewallet	479.75	4.7619047164917	23.9
28	162-48-8011	A	Yangon	Member	Female	Food and beverages	44.5900001525879	5	11.147500038147	234.097503662109	2019-02-10	15:10:00.0000000	Cash	222.949996948242	4.7619047164917	11.1
29	166-19-2553	A	Yangon	Member	Male	Sports and travel	89.0599975585938	6	26.7180004119873	561.078002929688	2019-01-18	17:26:00.0000000	Cash	534.359985351563	4.7619047164917	26.7
30	169-52-4504	A	Yangon	Normal	Female	Electronic accessories	15.6899995803833	3	2.35349988937378	49.4235000610352	2019-03-14	14:13:00.0000000	Credit card	47.0699996948242	4.7619047164917	2.35
31	175-54-2529	A	Yangon	Member	Male	Food and beverages	22.1700000762939	8	8.86800003051758	186.227996826172	2019-03-03	17:01:00.0000000	Credit card	177.360000610352	4.7619047164917	8.86

Query executed successfully.

BT-2205113\SQLEXPRESS (15.0...) BT-2205113\KIIT (75) Aryan_project 00:00:00 340 rows

Ln 2 Col 20 Ch 20 INS

2. Find the total sales for each product line.

SQLQuery1.sql - BT-2205113\SQLEXPRESS.Aryan_project (BT-2205113\KIIT (64))* - Microsoft SQL Server Management Studio

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Connect

BT-2205113\SQLEXPRESS (SQL Server 15)

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- XEvent Profiler

SQLQuery1.sql - BT-2205113\KIIT (64))*

```
/*Query2*/  
Select Product_line, sum(Unit_price) as Total_sales  
from WalmartData  
Group by Product_line;
```

150 %

Results Messages

	Product_line	Total_sales
1	Fashion accessories	10173.3499965668
2	Health and beauty	8337.8800163269
3	Electronic accessories	9103.76998710632
4	Food and beverages	9745.54000759125
5	Sports and travel	9460.87998867035
6	Home and lifestyle	8850.70998287201

Query executed successfully.

BT-2205113\SQLEXPRESS (15.0... BT-2205113\KIIT (64) Aryan_project 00:00:00 6 rows

Ready Ln 8 Col 1 Ch 1 INS

4

Ready

4. Calculate the total gross income generated in each city.

SQLQuery1.sql - BT-2205113\SQLEXPRESS.Aryan_project (BT-2205113\KIIT (64))* - Microsoft SQL Server Management Studio

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Execute

Aryan_project

Object Explorer

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BT-2205113\SQLEXPRESS (SQL Server 15)

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SQLQuery1.sql - BT...-2205113\KIIT (64))*

```
/*Query4*/
Select city, sum(gross_income) As Total_Gross_Income
from WalmartData
Group by city;
```

150 %

Results

Messages

	city	Total_Gross_Income
1	Naypyitaw	5265.17648047209
2	Yangon	5057.16050344706
3	Mandalay	5057.03201311827

Query executed successfully.

BT-2205113\SQLEXPRESS (15.0... BT-2205113\KIIT (64) Aryan_project 00:00:00 3 rows

Ready Ln 19 Col 17 Ch 17 INS

5. Find the average rating given by customers in each branch.

SQLQuery1.sql - BT-2205113\SQLEXPRESS.Aryan_project (BT-2205113\KIIT (64))* - Microsoft SQL Server Management Studio

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Object Explorer

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```
/*Query5*/  
Select Branch, avg(Rating) As Avg_rating  
From WalmartData  
Group by Branch;
```

150 %

Results Messages

	Branch	Avg_rating
1	A	7.02705882156596
2	C	7.07286585394929
3	B	6.81807227450681

Query executed successfully.

BT-2205113\SQLEXPRESS (15.0...) BT-2205113\KIIT (64) Aryan_project 00:00:00 3 rows

Ready Ln 26 Col 1 Ch 1 INS

7

Ready

7. List the top 5 products by unit price.

8

SQLQuery1.sql - BT-2205113\SQLEXPRESS.Aryan_project (BT-2205113\KIIT (64))* - Microsoft SQL Server Management Studio

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SQLQuery1.sql - BT-2205113\KIIT (64))*

```
/*Query7*/  
SELECT TOP 5 product_line, MAX(unit_price) AS max_unit_price  
FROM WalmartData  
GROUP BY product_line  
ORDER BY max_unit_price DESC;
```

150 %

Results Messages

	product_line	max_unit_price
1	Sports and travel	99.9599990844727
2	Health and beauty	99.9599990844727
3	Home and lifestyle	99.9199981689453
4	Fashion accessories	99.8899993896484
5	Food and beverages	99.7900009155273

Query executed successfully.

BT-2205113\SQLEXPRESS (15.0... | BT-2205113\KIIT (64) | Aryan_project | 00:00:00 | 5 rows

Ready Ln 37 Col 1 Ch 1 INS

9

Ready

10

Ready

10. Calculate the total sales and gross income for each month. .

11

SQLQuery1.sql - BT-2205113\SQLEXPRESS.Aryan_project (BT-2205113\KIIT (64))* - Microsoft SQL Server Management Studio

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```
/*Query10*/  
SELECT CONVERT(VARCHAR(7), date, 120) AS month,  
       SUM(total) AS total_sales,  
       SUM(gross_income) AS total_gross_income  
FROM WalmartData  
GROUP BY CONVERT(VARCHAR(7), date, 120);
```

150 %

Results Messages

	month	total_sales	total_gross_income
1	2019-02	97219.3739280701	4629.49400019646
2	2019-01	116291.868041039	5537.70801019669
3	2019-03	109455.507236481	5212.16698664427

Query executed successfully.

BT-2205113\SQLEXPRESS (15.0... | BT-2205113\KIIT (64) | Aryan_project | 00:00:00 | 3 rows

Ready Ln 1 Col 1 INS

11. Find the number of sales transactions that occurred after 6 PM.

12

SQLQuery1.sql - BT-2205113\SQLEXPRESS.Aryan_project (BT-2205113\KIIT (64))* - Microsoft SQL Server Management Studio

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SQLQuery1.sql - BT...-2205113\KIIT (64))*

```
/*Query11*/  
SELECT COUNT(*) AS Transactions_after_6pm  
FROM WalmartData  
WHERE Time > '18:00:00';
```

150 %

Results Messages

	Transactions_after_6pm
1	279

Query executed successfully.

BT-2205113\SQLEXPRESS (15.0... | BT-2205113\KIIT (64) | Aryan_project | 00:00:00 | 1 rows

Ready Ln 60 Col 25 Ch 25 INS

12. List the sales transactions that have a higher total than the average total of all transactions.

13

SQLQuery1.sql - BT-2205113\SQLEXPRESS.Aryan_project (BT-2205113\KIIT (64))* - Microsoft SQL Server Management Studio

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SQLQuery1.sql - BT...-2205113\KIIT (64))*

```
/*Query12*/  
SELECT * FROM WalmartData  
WHERE total > (SELECT AVG(total) FROM WalmartData);
```

150 %

Results Messages

	Invoice_ID	Branch	City	Customer_type	Gender	Product_line	Unit_price	Quantity	Tax_5	Total	Date	Time	Payment	cogs	gross_margin_percentage	gr
1	101-17-6199	A	Yangon	Normal	Male	Food and beverages	45.7900009155273	7	16.0265007019043	336.556488037109	2019-03-13	19:44:00.0000000	Credit card	320.529998779297	4.7619047164917	1!
2	102-77-2261	C	Naypyitaw	Member	Male	Health and beauty	65.3099975585938	7	22.8584995269775	480.028503417969	2019-03-05	18:02:00.0000000	Credit card	457.170013427734	4.7619047164917	2!
3	105-31-1824	A	Yangon	Member	Male	Sports and travel	69.5199966430664	7	24.3320007324219	510.971984863281	2019-02-01	15:10:00.0000000	Credit card	486.640014648438	4.7619047164917	2!
4	109-28-2512	B	Mandalay	Member	Female	Fashion accessories	97.6100006103516	6	29.2830009460449	614.942993164063	2019-01-07	15:01:00.0000000	Ewallet	585.659973144531	4.7619047164917	2!
5	109-86-4363	B	Mandalay	Member	Female	Sports and travel	60.0800018310547	7	21.0279998779297	441.588012695313	2019-02-14	11:36:00.0000000	Credit card	420.559997558594	4.7619047164917	2!
6	114-35-5271	B	Mandalay	Normal	Female	Electronic accessories	57.9099998474121	8	23.1639995574951	486.444000244141	2019-02-07	15:06:00.0000000	Cash	463.279998779297	4.7619047164917	2!
7	115-99-4379	B	Mandalay	Member	Female	Fashion accessories	54.7299995422363	7	19.1555004119873	402.265502929688	2019-03-14	19:02:00.0000000	Credit card	383.109985351563	4.7619047164917	1!
8	118-62-1812	C	Naypyitaw	Member	Female	Home and lifestyle	78.379997253418	4	15.6759996414185	329.196014404297	2019-03-24	17:56:00.0000000	Cash	313.519989013672	4.7619047164917	1!
9	122-61-9553	C	Naypyitaw	Normal	Female	Electronic accessories	51.3199996948242	9	23.0939998626709	484.973999023438	2019-03-14	19:33:00.0000000	Cash	461.880004882813	4.7619047164917	2!
10	123-19-1176	A	Yangon	Member	Male	Health and beauty	58.2200012207031	8	23.2880001068115	489.048004150391	2019-01-27	20:33:00.0000000	Ewallet	465.760009765625	4.7619047164917	2!
11	123-35-4896	C	Naypyitaw	Normal	Female	Sports and travel	46.6599998474121	9	20.9969997406006	440.93701171875	2019-02-17	19:11:00.0000000	Ewallet	419.940002441406	4.7619047164917	2!
12	125-45-2293	A	Yangon	Normal	Female	Fashion accessories	99.0999984741211	6	29.7299995422363	624.330017089844	2019-01-19	13:11:00.0000000	Cash	594.599975585938	4.7619047164917	2!
13	129-29-8530	A	Yangon	Member	Male	Sports and travel	62.6199989318848	5	15.6549997329712	328.755004882813	2019-03-10	19:15:00.0000000	Ewallet	313.100006103516	4.7619047164917	1!
14	130-98-8941	C	Naypyitaw	Normal	Male	Fashion accessories	64.2600021362305	7	22.4909992218018	472.311004638672	2019-02-09	10:00:00.0000000	Cash	449.820007324219	4.7619047164917	2!
15	131-15-8856	C	Naypyitaw	Member	Female	Food and beverages	72.5199966430664	8	29.007999420166	609.168029785156	2019-03-30	19:26:00.0000000	Credit card	580.159973144531	4.7619047164917	2!
16	132-32-9879	B	Mandalay	Member	Female	Electronic accessories	93.9599990844727	4	18.7919998168945	394.631988525391	2019-03-09	18:00:00.0000000	Cash	375.839996337891	4.7619047164917	1!
17	134-54-4720	B	Mandalay	Normal	Female	Electronic accessories	42.4199981689453	8	16.9680004119873	356.328002929688	2019-01-30	13:58:00.0000000	Ewallet	339.359985351563	4.7619047164917	1!
18	135-84-8019	A	Yangon	Normal	Female	Fashion accessories	77.9300003051758	9	35.0685005187988	736.4384765625	2019-02-27	16:10:00.0000000	Ewallet	701.369995117188	4.7619047164917	3!
19	136-08-6195	A	Yangon	Normal	Female	Home and lifestyle	69.9599990844727	8	27.9839992523193	587.664001464844	2019-02-15	17:01:00.0000000	Credit card	559.679992675781	4.7619047164917	2!
20	137-63-5492	C	Naypyitaw	Normal	Male	Electronic accessories	58.7599983215332	10	29.3799991607666	616.97998046875	2019-01-29	14:26:00.0000000	Ewallet	587.599975585938	4.7619047164917	2!
21	138-17-5109	A	Yangon	Member	Female	Home and lifestyle	89.2099990844727	9	40.1445007324219	843.034484863281	2019-01-15	15:42:00.0000000	Credit card	802.890014648438	4.7619047164917	4!
22	139-20-0155	B	Mandalay	Member	Male	Electronic accessories	40.2999992370605	10	20.1499996185303	423.149993896484	2019-01-24	17:37:00.0000000	Credit card	403	4.7619047164917	2!
23	139-32-4183	A	Yangon	Member	Female	Sports and travel	97.4800033569336	9	43.8660011291504	921.185974121094	2019-03-14	14:19:00.0000000	Ewallet	877.320007324219	4.7619047164917	4!
24	142-63-6033	B	Mandalay	Normal	Male	Home and lifestyle	92.3600006103516	5	23.0900001525879	484.890014648438	2019-03-20	19:17:00.0000000	Ewallet	461.799987792969	4.7619047164917	2!
25	145-94-9061	B	Mandalay	Normal	Female	Food and beverages	88.3600006103516	5	22.0900001525879	463.890014648438	2019-01-25	19:48:00.0000000	Cash	441.799987792969	4.7619047164917	2!
26	146-09-5432	A	Yangon	Member	Male	Food and beverages	35.0400009155273	9	15.7679996490479	331.127990722656	2019-02-09	19:17:00.0000000	Ewallet	315.359985351563	4.7619047164917	1!

Query executed successfully.

BT-2205113\SQLEXPRESS (15.0...) BT-2205113\KIIT (64) Aryan_project 00:00:00 404 rows

Ready Ln 65 Col 1 Ch 1 INS

15. Find the total cogs for each customer type in each city.

SQLQuery1.sql - BT-2205113\SQLEXPRESS.Aryan_project (BT-2205113\KIIT (64))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query

Execute

Aryan_project

Object Explorer

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BT-2205113\SQLEXPRESS (SQL Server 15)

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SQLQuery1.sql - BT...-2205113\KIIT (64))*

/*Query15*/

SELECT city, customer_type, SUM(cogs) AS total_cogs FROM WalmartData

GROUP BY city, customer_type;

150 %

Results

Messages

	city	customer_type	total_cogs
1	Naypyitaw	Member	54172.6500940323
2	Mandalay	Member	51147.3199176788
3	Mandalay	Normal	49993.3201065063
4	Yangon	Member	51083.3101081848
5	Naypyitaw	Normal	51130.879817009
6	Yangon	Normal	50059.8997192383

Query executed successfully.

BT-2205113\SQLEXPRESS (15.0... BT-2205113\KIIT (64) Aryan_project 00:00:00 6 rows

Ready Ln 74 Col 1 Ch 1 INS

THANK YOU

Aryan Kumar sao
Batch – MIP-DA-13
