SQL for Data Analysis Project

MYNTRA

India's largest online shopping store

TEAM MEMBERS

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PROJECT INTRODUCTION

This project involves the analysis of the Myntra sales dataset, which encompasses detailed information on the sales of Myntra's different products. Using SQL Queries, we analyse data to provide valuable key insights, identify patterns, and generate meaningful recommendations that can drive business growth and strategic decision-making.

OBJECTIVE

The primary objective is to perform an in-depth analysis of the Myntra sales dataset, addressing key questions related to retailers, units sold, product category wise, and more. The scope includes data cleaning, and creating supporting tables for detailed analysis. We will also explore trends in operating profits, sales method, and more to provide actionable insights.

CREATING DATABASE AND IMPORTING DATA

```sql
create database clothingapp;
use clothingapp;
desc myntra;
alter table myntra
add primary key (productid);
desc myntra;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
ProductID	int	NO	PRI	NULL	
name	text	YES		NULL	
price	int	YES		NULL	
mrp	int	YES		NULL	
rating	double	YES		NULL	
ratingTotal	int	YES		NULL	
discount	int	YES		NULL	

FIND PRODUCT WITH A RATING >4.5

```
-- find product with a rating >4.5--
select * from myntra where rating> 4.5;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

ProductID	name	price	mrp	rating	ratingTotal	discount	seller	PrimaryCol
1000795	Men Striped Polo Collar T-shirt	1199	1999	4.6	180	40	Louis Philippe Sport	Navy
1001944	Men Printed Night Suit	839	2999	4.6	17	72	Bene Kleed	Black
1005082	Unisex Kids Bayaband Clogs	1797	3995	4.7	47	55	Crocs	Pink
1005119	Small Pierced Earrings	4450	4450	4.8	69	0	SWAROVSKI	Grey
1008344	Chikankari Gown Ethnic Dress	2999	5999	5	4	3000	PRENEA	Grey
1009000	Pure Cotton Striped Shorts Set	719	1599	4.7	9	55	ether	Yellow
1009385	Delicate Face Cleanser 200 ml	1550	1550	4.7	525	0	Forest Essentials	Grey

Result Grid

Form Editor

FIND THE AVERAGE PRICE OF ALL PRODUCTS

```
14 •  select avg(price) from myntra;
15
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	avg(price)
▶	1666.4093

COUNT THE NUMBER OF PRODUCTS FROM THE SELLER 'ROADSTER'

```
-- count the number of products from the seller 'roadster'--
select count(*) from myntra where seller = 'Roadster';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

count(*)
334

FIND ALL PRODUCTS WHERE CURRENT PRICE IS <500

```
19 •  select * from myntra where price < 500;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

ProductID	name	price	mrp	rating	ratingTotal	discount	seller
101470	Set Of 3 Drop Earrings	419	1499	4.2	592	72	Yellow Chimes
101473	Kundan Choker Jewellery Set	479	2663	4.1	839	82	Zaveri Pearls
1000505	Stick-On Backless Push Up Bra	479	1699	0	0	1220	Hill Islands
1000905	Jhumkas Earrings	299	2999	0	0	90	Kord Store
1002027	Self Design Woollen Beanie	279	499	0	0	220	Gajraj
1002097	Rapid Dry T-shirt	449	899	4.3	10300	50	HRX by Hrithik Roshan
1003773	Nude Nuance Matte Lipstick 657	230	329	4.5	1900	30	Maybelline

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LIST ALL PRODUCTS THAT ARE AVAILABLE IN BLACK COLOUR

```
-- list all products that are available in black colour--
select * from myntra where primarycolor='black';
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap C

ProductID	name	price	mrp	rating	ratingTotal	discount	seller	PrimaryColor
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

CALCULATE THE PERCENTAGE OF PRODUCTS WITH A RATING OF 4.0 OR ABOVE

```
select(count(*)*100.00/(select count(*) from myntra))
from myntra where rating >=4.0;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

(count(*)*100.00/(select count(*) from myntra))
46.601553

FIND THE PRODUCT WITH THE HIGHEST NUMBER OF TOTAL RATINGS

```
select * from myntra order by ratingtotal desc limit 1;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

ProductID	name	price	mrp	rating	ratingTotal	discount	seller	Prim
10009723	Printed Cotton Pure Cotton T-shirt	384	699	4.2	66900	45	HRX by Hrithik Roshan	Blue
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

GET THE TOTAL NUMBER OF PRODUCTS AVAILABLE FROM DIFFERENT SELLERS

```
select seller,count(*) from myntra group by seller;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

seller	count(*)
Sztori	159
Yellow Chimes	15
Zaveri Pearls	61
Fleurt	125
Roadster	334
Organzaa	15
RESIST EYEWEAR	5

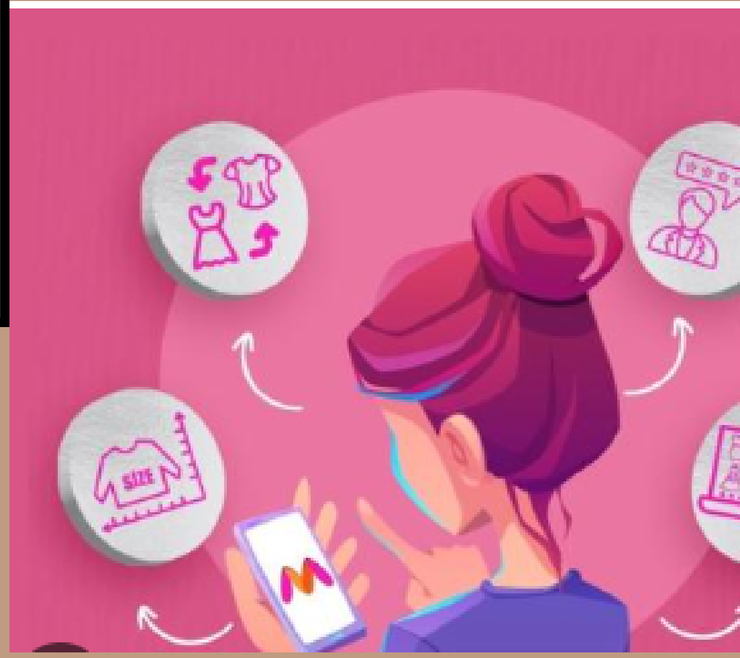
Result 33

FIND THE MAXIMUM, MINIMUM AND AVERAGE DISC AVAILABLE ACROSS ALL PRODUCTS

```
30 •  select max(discount), min(discount),avg(discount) from myntra;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	max(discount)	min(discount)	avg(discount)
▶	16600	0	236.8750



LIST ALL PRODUCTS THAT HAVE A DISCOUNT BUT ARE STILL PRICED ABOVE 1000

```
32 •   select *from myntra where discount> 0 and price> 1000;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

ProductID	name	price	mrp	rating	ratingTotal	discount	seller	Prim
101206	Plus Size Printed Casual Shirt	1429	2599	0	0	45	Sztori	Blue
1000353	Men Cotton Joggers	1079	2399	3.7	7300	55	Roadster	Blue
1000488	Women Floral Print Night suit	1423	4449	0	0	68	Organzaa	Grey
1000497	Laptop Backpack	1049	1499	0	0	30	Teakwood Leathers	Grey
1000507	Gold-Plated Jewellery Set	2352	7130	4.4	356	67	Priyaasi	Black
1000714	Airdopes 131 M TWS Earbuds	1299	2990	4.1	44100	1691	boAt	Gold
1000716	Unisex Zipper Laptop Backpack	1349	2699	0	0	50	Puma	Gree

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SHOW THE TOTAL NUMBER OF PRODUCTS FOR EACH PRIMARY COLOR

```
select PrimaryColor, count(*) from myntra group by PrimaryColor;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

PrimaryColor	count(*)
Blue	3443
Black	1640
Navy	54
Grey	684
Silver	111
Red	1543
Gold	236

Result 36

LIST ALL PRODUCTS WITH MORE THAN 10000 RATINGS AND A RATING OF 4.0 OR ABOVE

```
select * from myntra where ratingtotal > 10000 and rating >=4.0;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

ProductID	name	price	mrp	rating	ratingTotal	discount	seller	Pri
1000714	Airdopes 131 M TWS Earbuds	1299	2990	4.1	44100	1691	boAt	Go
1002097	Rapid Dry T-shirt	449	899	4.3	10300	50	HRX by Hrithik Roshan	Blue
10000571	Printed Pure Cotton T-shirt	279	699	4.2	55400	60	HRX by Hrithik Roshan	Re
10001251	Ultralyte Men Running T-shirt	494	899	4.4	14400	45	HRX by Hrithik Roshan	Bla
10001265	Printed Cotton Pure Cotton T-shirt	399	799	4.2	12500	50	Roadster	
10003833	Sustainable Onion Shampoo 250 ml	321	349	4.2	13200	8	Mamaearth	Gre

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FIND PRODUCTS WITH THE GREATEST DIFFERENCE BETWEEN MRP AND PRICE

```
select *,(mrp-price) as price_difference from myntra order by price_difference desc
limit 5;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

ProductID	name	price	mrp	rating	ratingTotal	discount	seller
10033727	Kalamkari Jute Silk Saree	25999	51998	0	0	50	Unnati Silks
10187401	Oxidised Silver-Plated & AD-Studded Handcraft...	6900	30000	4.2	5	77	Rubans
1001423	Kalamkari Tussar Jute Silk Saree	22899	45798	0	0	50	Unnati Silks
10053683	Cobra Bluetooth Smartwatch	3399	19999	3.7	53	16600	Fire-Boltt
10052565	Cobra Bluetooth Smartwatch	3399	19999	4	36	16600	Fire-Boltt

Result Grid

Form Editor

LIST THE NAMES OF PRODUCTS THAT ARE SOLD BY MORE THAN ONE SELLER

```
select name,count(distinct seller) from myntra group by name having
 count(distinct seller) >1;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

name	count(distinct seller)
10% Niacinamide Face Serum	2
12 Pcs Cups and Saucers	2
120 TC King 2 Pillow Covers	2
120 TC Queen 2 Pillow Covers	2
144 TC 1 King Bedsheet with 2 Pillow Covers	3
144 TC King 2 Pillow Covers	2

Result Grid

Form Editor

FIND THE AVERAGE RATING FOR PRODUCTS SOLD BY 'ROADSTER'

```
48 •    select avg(rating) from myntra where seller ='roadster';
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

avg(rating)
3.616467065868264

GET THE TOP 3 PRODUCTS WITH THE HIGHEST DISCOUNT PERCENTAGE

```
50 ●    select * from myntra order by discount desc limit 3;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

ProductID	name	price	mrp	rating	ratingTotal	discount	seller	PrimaryColor
10052565	Cobra Bluetooth Smartwatch	3399	19999	4	36	16600	Fire-Boltt	Blue
10053683	Cobra Bluetooth Smartwatch	3399	19999	3.7	53	16600	Fire-Boltt	Black
10058497	Supernova Bluetooth SmartWatch	3499	18999	4.1	40	15500	Fire-Boltt	Blue
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Result Grid

Form Editor

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Apply

LIST ALL UNIQUE PRODUCT NAMES ALONG WITH THE COUNT OF DIFFERENT COLORS THEY ARE AVAILABLE IN.

```
52 •  select name, count(distinct primarycolor) from myntra group by name;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

name	count(distinct primarycolor)
\Vegan Leather Laptop Backpack	1
02 Soft Wine Matte Lipstick	1
05560-3824 Ear & Nose Trimmer	1
05604-324 Grooming Kit	1
1 Million Parfum For Men 50ML	1
1 Stainless Steel Kettle	1

Result 43

FIND THE PRODUCTS WHERE THE PRICE IS MORE THAN 70% OF THE MRP

```
55
56
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

ProductID	name	price	mrp	rating	ratingTotal	discount	seller	Primary
1000182	Pack Of 12 Hipster Brief	4245	4245	0	0	0	Fleurt	Navy
1000494	UV Protected Oval Sunglasses	4999	4999	0	0	0	RESIST EYEWEAR	Black
1000717	Kurti	1900	1900	0	0	0	CRAZEVILLA	Maroon
1000740	SPORTSWEAR Sweatshirt	14999	14999	0	0	0	ADIDAS	Gold
1000743	Mysore Jasmine Face Mist 100ml	595	595	0	0	0	Nourish Mantra	Gold
1000744	Women Cotton Lounge Pants	600	750	0	0	20	Okane	Silver
1000903	Men Black Regular Jeans	1799	1799	4.3	3500	0	H&M	Yellow

Thank You