

MySQL Workbench

Local instance MySQL80

FileEditViewQueryDatabaseServerToolsScriptingHelp

Navigator

SCHEMAS

Filter objects

live_session

- Tables
 - bigbasket
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- Views
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sakila

sys

world

SQL File 5*

Don't Limit

1 • use live_session;
2 • select * from bigbasket;
3
4 # Task 1. Rank products based on their sale price within each category.
5 • select category, product, sale_price,
6 rank() over(partition by category order by sale_price desc) as rank_salesprice,
7 dense_rank() over(partition by category order by sale_price desc) as dence_salesprice,
8 row_number() over(partition by category order by sale_price desc) as rank_salesprice
9 from bigbasket;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

category	product	sale_price	rank_salesprice	dence_salesprice	rank_salesprice
Baby Care	Steam Steriliser With Tongs	3290	1	1	1
Baby Care	Diaper Pants Super Value Box - Small	2799	2	2	2
Baby Care	Mom & Baby Care Essentials Suitcase Gift Box	2399	3	3	3
Baby Care	Premium Care Large Diapers - Super Value Pack	2375	4	4	4
Baby Care	Premium Care Medium Diapers - Super Value Pack	2375	4	4	5
Baby Care	Premium Care X-Large Diapers - Super Value Pack	2375	4	4	6
Baby Care	Premium Care Small - 140 Diaper Pants	2199	7	5	7
Baby Care	Premium Soft Diaper Pants - Medium, Monthly P...	2183	8	6	8
Baby Care	Premium Soft Diaper Pants - Medium Size	2160	9	7	9
Baby Care	Diaper Pants Super Value Box - Medium	2087	10	8	10
Baby Care	Diaper Pants Super Value Box - Large	2087	10	8	11
Baby Care	Premium Soft Diaper Pants - Small Size	2018	12	9	12
Baby Care	Diaper Pants Super Value Box - Extra Large	1943	13	10	13
Baby Care	Wonder Pants Large Size Diapers Monthly Pack	1910	14	11	14

Result 2

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 31	23:37:40	select * from bigbasket	18929 row(s) returned	0.016 sec / 0.062 sec

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11 # Task 2. Find the next product's sale price for comparison within the same category.

12 • select category, product, sale_price,

13 lead(sale_price) over(partition by category order by sale_price desc) as lead_salesprice

14 from bigbasket;

15

16

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	category	product	sale_price	lead_salesprice
▶	Baby Care	Steam Steriliser With Tongs	3290	2799
	Baby Care	Diaper Pants Super Value Box - Small	2799	2399
	Baby Care	Mom & Baby Care Essentials Suitcase Gift Box	2399	2375
	Baby Care	Premium Care Large Diapers - Super Value Pack	2375	2375
	Baby Care	Premium Care Medium Diapers - Super Value Pack	2375	2375
	Baby Care	Premium Care X-Large Diapers - Super Value Pack	2375	2199
	Baby Care	Premium Care Small - 140 Diaper Pants	2199	2183
	Baby Care	Premium Soft Diaper Pants - Medium, Monthly P...	2183	2160
	Baby Care	Premium Soft Diaper Pants - Medium Size	2160	2087
	Baby Care	Diaper Pants Super Value Box - Medium	2087	2087
	Baby Care	Diaper Pants Super Value Box - Large	2087	2018
	Baby Care	Premium Soft Diaper Pants - Small Size	2018	1943
	Baby Care	Diaper Pants Super Value Box - Extra Large	1943	1910
	Baby Care	Wonder Pants Large Size Diapers Monthly Pack	1910	1910
	Baby Care	Wonder Pants Small Size Diapers Monthly Pack	1910	1758
	Baby Care	Pants Extra Absorb Diaper - Extra Large Size	1758	1689
	Baby Care	Complete Care Pregnancy Gift Box	1689	1655

Result 3

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
32	23:43:16	select category, product, sale_price, rank() over(partition by category order by sale_price desc) as rank_salespric...	18929 row(s) returned	0.125 sec / 0.047 sec
33	23:43:22	select category, product, sale_price, lead(sale_price) over(partition by category order by sale_price desc) as lead...	18929 row(s) returned	0.063 sec / 0.047 sec

Object Info

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SQL File 5*

Don't Limit

12

•

select category, product, sale_price,

13

lead(sale_price) over(partition by category order by sale_price desc) as lead_salesprice

14

from bigbasket;

15

16

if you want to find the previous product's sale price then use lag().

17

•

select category, product, sale_price,

18

lag(sale_price) over(partition by category order by sale_price desc) as lag_salesprice

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	category	product	sale_price	lag_salesprice
▶	Baby Care	Steam Steriliser With Tongs	3290	NOTE
	Baby Care	Diaper Pants Super Value Box - Small	2799	3290
	Baby Care	Mom & Baby Care Essentials Suitcase Gift Box	2399	2799
	Baby Care	Premium Care Large Diapers - Super Value Pack	2375	2399
	Baby Care	Premium Care Medium Diapers - Super Value Pack	2375	2375
	Baby Care	Premium Care X-Large Diapers - Super Value Pack	2375	2375
	Baby Care	Premium Care Small - 140 Diaper Pants	2199	2375
	Baby Care	Premium Soft Diaper Pants - Medium, Monthly P...	2183	2199
	Baby Care	Premium Soft Diaper Pants - Medium Size	2160	2183
	Baby Care	Diaper Pants Super Value Box - Medium	2087	2160
	Baby Care	Diaper Pants Super Value Box - Large	2087	2087
	Baby Care	Premium Soft Diaper Pants - Small Size	2018	2087
	Baby Care	Diaper Pants Super Value Box - Extra Large	1943	2018
	Baby Care	Wonder Pants Large Size Diapers Monthly Pack	1910	1943
	Baby Care	Wonder Pants Small Size Diapers Monthly Pack	1910	1910
	Baby Care	Pants Extra Absorb Diaper - Extra Large Size	1758	1910
	Baby Care	Complete Care Pregnancy Gift Box	1689	1758

Result 4

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 33	23:47:33	select category, product, sale_price, lead(sale_price) over(partition by category order by sale_price desc) as lead_...	18929 row(s) returned	0.063 sec / 0.047 sec

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product_performance_analysis_...

Don't Limit

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21 # Task 3. Create a CTE to get the top 5 highest-rated products for each category.

22 with toprated as (

23 select category, product, rating,

24 row_number() over(partition by category order by rating desc) as rank_row

25 from bigbasket)

26 select * from toprated where rank_row<=5;

27

Result Grid

Filter Rows:

Export:

Wrap Cell Contents:

	category	product	rating	rank_row
▶	Baby Care	Natural Bath Essentials	5	1
	Baby Care	Disposable Maternity & Nursing Breast Pads For...	5	2
	Baby Care	Baby Happy Large - 48 Diapers	5	3
	Baby Care	Baby Care Collection - with Organic Cotton Bib	5	4
	Baby Care	Premium Soft Diaper Pants - Medium, Monthly P...	5	5
	Bakery, Cakes & Dairy	Tempeh Cubes - Spiced Tawa Masala Soyabean	5	1
	Bakery, Cakes & Dairy	Dairy Whitener	5	2
	Bakery, Cakes & Dairy	Sugar Free Oats & Raisin Cookies	5	3
	Bakery, Cakes & Dairy	Whole Wheat Bread	5	4
	Bakery, Cakes & Dairy	Topp Up Milk - Elaichi	5	5
	Beauty & Hygiene	Light Complete Vitamin C Booster Serum	5	1
	Beauty & Hygiene	Earth C7 Argan Oil	5	2
	Beauty & Hygiene	D-Tan Scrub	5	3
	Beauty & Hygiene	Oil Control Face Pack	5	4
	Beauty & Hygiene	Mixed Fruit Face Wash	5	5
	Beverages	Squash - Kokum	5	1
	Beverages	Squash - Kokum Kadi	5	2
	Beverages	Nilgiri Black Tea - Hozo Orange Pekoe	5	3

Result 2

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	00:00:00			

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product_performance_analysis_... SQL File 3*

Don't Limit

27

28 # Task 4. Create a view to simplify querying for product information in the 'Beauty & Hygiene' category.

29 • create view Beauty_Hygiene as

30 select id, product, category, sub_category, rating, brand, market_price

31 from bigbasket

32 where category="Beauty & Hygiene";

33 • select * from Beauty_Hygiene;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	id	product	category	sub_category	rating	brand	market_price
▶	1	Garlic Oil - Vegetarian Capsule 500 mg	Beauty & Hygiene	Hair Care	4.1	Sri Sri Ayurveda	220
	5	Creme Soft Soap - For Hands & Body	Beauty & Hygiene	Bath & Hand Wash	4.4	Nivea	162
	7	Multani Mati	Beauty & Hygiene	Skin Care	3.6	Satinance	58
	8	Hand Sanitizer - 70% Alcohol Base	Beauty & Hygiene	Bath & Hand Wash	4	Bionova	250
	9	Biotin & Collagen Volumizing Hair Shampoo + Bio...	Beauty & Hygiene	Hair Care	3.5	StBotanica	1098
	13	Face Wash - Oil Control, Active	Beauty & Hygiene	Skin Care	5	Oxy	110
	17	Smooth Skin Oil - For Dry Skin	Beauty & Hygiene	Skin Care	5	Aroma Treasures	360
	21	Ceramic Barrel Brush - Colour May Vary	Beauty & Hygiene	Hair Care	4.2	Bronson Professional	700
	30	Lip Butter - Rose	Beauty & Hygiene	Skin Care	1.5	Organic Harvest	199
	33	Amber - Deodorant Body Spray	Beauty & Hygiene	Fragrances & Deos	3.4	Old Spice	249
	38	Bodylicious Deodorant Spray - Mate (For Men)	Beauty & Hygiene	Fragrances & Deos	4.1	Engage	195
	39	Sport Deo Spray - Fresh, for Men	Beauty & Hygiene	Men's Grooming	3.7	Engage	205
	41	Eau De Toilette - Homme Green	Beauty & Hygiene	Fragrances & Deos	4.3	Colour Me	450
	42	Lemon & Tea Tree Oil Soap	Beauty & Hygiene	Bath & Hand Wash	4.2	Liril	360
	47	After Shave Splash - Arctic Ice	Beauty & Hygiene	Men's Grooming	3.9	Gillette	469
	53	Acne & Oil Control Face Wash	Beauty & Hygiene	Men's Grooming	4	Red Hunt	100

Beauty_Hygiene 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 14	23:35:23	select * from Beauty_Hygiene	5464 row(s) returned	0.015 sec / 0.047 sec
✗ 15	23:35:49	create view Beauty_Hygiene as select id, product, category, sub_category, rating, brand, market_price from bigb...	Error Code: 1050. Table 'Beauty_Hygiene' already exists	0.000 sec
✓ 16	23:35:58	select * from Beauty_Hygiene	5464 row(s) returned	0.000 sec / 0.047 sec

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product_performance_analysis_...SQL File 3*

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Stored Procedures

update_saleprice

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35# Task 5. Write a stored procedure to update the sale price of a product by its id.

36DELIMITER //

37CREATE PROCEDURE update_saleprice(

38IN product_id INT,

39IN new_saleprice INT

40)

41BEGIN

42UPDATE bigbasket

43SET sale_price = new_saleprice

44WHERE id = product_id;

45END //

46DELIMITER ;

47CALL update_saleprice(1,550);

48SELECT * FROM bigbasket;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

id	product	category	sub_category	brand	sale_price	market_price	type	rating
1	Garlic Oil - Vegetarian Capsule 500 mg	Beauty & Hygiene	Hair Care	Sri Sri Ayurveda	550	220	Hair Oil & Serum	4.1
2	Water Bottle - Orange	Kitchen, Garden & Pets	Storage & Accessories	Mastercook	180	180	Water &Fridge Bottles	2.3
3	Brass Angle Deep - Plain, No.2	Cleaning & Household	Pooja Needs	Trm	119	250	Lamp & Lamp Oil	3.4
4	Cereal Flip Lid Container/Storage Jar - Assorted...	Cleaning & Household	Bins & Bathroom Ware	Nakoda	149	176	Laundry, Storage Baskets	3.7
5	Creme Soft Soap - For Hands & Body	Beauty & Hygiene	Bath & Hand Wash	Nivea	162	162	Bathing Bars & Soaps	4.4
6	Germ - Removal Multipurpose Wipes	Cleaning & Household	All Purpose Cleaners	Nature Protect	169	199	Disinfectant Spray & Cleaners	3.3
7	Multani Mati	Beauty & Hygiene	Skin Care	Satinance	58	58	Face Care	3.6
8	Hand Sanitizer - 70% Alcohol Base	Beauty & Hygiene	Bath & Hand Wash	Bionova	250	250	Hand Wash & Sanitizers	4
9	Biotin & Collagen Volumizing Hair Shampoo + Bio...	Beauty & Hygiene	Hair Care	StBotanica	1098	1098	Shampoo & Conditioner	3.5
10	Scrub Pad - Anti-Bacterial, Regular	Cleaning & Household	Mops, Brushes & Scrubs	Scotch brite	20	20	Utensil Scrub-Pad, Glove	4.3
11	Wheat Grass Powder - Raw	Gourmet & World Food	Cooking & Baking Needs	NUTRASHIL	261	290	Flours &Pre-Mixes	4
12	Butter Cookies Gold Collection	Gourmet & World Food	Chocolates & Biscuits	Sapphire	600	600	Luxury Chocolates, Gifts	2.2
13	Face Wash - Oil Control Active	Beauty & Hygiene	Skin Care	Oxy	110	110	Face Care	5

bigbasket6

Administration

Schemas

Information

No object selected

Result Grid

Form Editor

Field Types

Read Only

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product_performance_analysis_... SQL File 3*

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49

50 # Task 6. Create a CTE to show the total sales price per category and rank them.

51 with total_sale as(

52 select category, sum(sale_price) as total_saleprice

53 from bigbasket

54 group by category)

55 select category, total_saleprice,

56 dense_rank() over(order by total_saleprice desc) as dense_ranksale

57 from total_sale;

Result Grid

Filter Rows:

Export:

Wrap Cell Contents:

	category	total_saleprice	dense_ranksale
▶	Beauty & Hygiene	1710859	1
	Kitchen, Garden & Pets	1155795	2
	Gourmet & World Food	634297	3
	Cleaning & Household	423419	4
	Foodgrains, Oil & Masala	374043	5
	Snacks & Branded Foods	291301	6
	Baby Care	239319	7
	Beverages	145589	8
	Bakery, Cakes & Dairy	94773	9

Result 7

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 30	23:58:12	select * from bigbasket	18929 row(s) returned	0.015 sec / 0.032 sec
✓ 31	23:59:01	select * from bigbasket	18929 row(s) returned	0.000 sec / 0.032 sec
✓ 32	23:59:01	select * from bigbasket	18929 row(s) returned	0.000 sec / 0.031 sec
✗ 33	00:10:52	with total_sale as(select category, sum(sale_price) as total_saleprice from bigbasket group by category) select ca...	Error Code: 1146. Table 'live_session.total_saleprice' doesn't exist	0.016 sec
✗ 34	00:12:10	with total_sale as(select category, sum(sale_price) as total_saleprice from bigbasket group by category)	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL serv...	0.000 sec
✓ 35	00:13:12	with total_sale as(select category, sum(sale_price) as total_saleprice from bigbasket group by category) select ca...	9 row(s) returned	0.047 sec / 0.000 sec

No object selected

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product_performance_analysis_...

SQL File 3*

Don't Limit

55

56

57

58

59

60

61

62

63

...

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	product	sale_price	market_price	diff
▶	Garlic Oil - Vegetarian Capsule 500 mg	550	220	-330
	Water Bottle - Orange	180	180	0
	Brass Angle Deep - Plain, No.2	119	250	131
	Cereal Flip Lid Container/Storage Jar - Assorted...	149	176	27
	Creme Soft Soap - For Hands &Body	162	162	0
	Germ - Removal Multipurpose Wipes	169	199	30
	Multani Mati	58	58	0
	Hand Sanitizer - 70% Alcohol Base	250	250	0
	Rintin & Collanen Volumizing Hair Shampoo + Bio...	1098	1098	0

Administration

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Information

No object selected

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	32	23:59:01	select * from bigbasket	18929 row(s) returned 0.000 sec / 0.031 sec
✗	33	00:10:52	with total_sale as(select category, sum(sale_price) as total_saleprice from bigbasket group by category) select ca...	Error Code: 1146. Table 'live_session.total_saleprice' doesn't exist 0.016 sec
✗	34	00:12:10	with total_sale as(select category, sum(sale_price) as total_saleprice from bigbasket group by category) select ca...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL serv... 0.000 sec
✓	35	00:13:12	with total_sale as(select category, sum(sale_price) as total_saleprice from bigbasket group by category) select ca...	9 row(s) returned 0.047 sec / 0.000 sec
✓	36	00:17:50	create view pdf as select product, sale_price, market_price, (market_price-sale_price) as diff from bigbasket	0 row(s) affected 0.016 sec
✓	37	00:17:55	select * from pdf	18929 row(s) returned 0.016 sec / 0.031 sec

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SCHEMAS

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62 from bigbasket;

63 • select * from pdf;

64

65 # Task 8. Create a stored procedure to return products from a specific category and sub category.

66 DELIMITER //

67

68 • CREATE PROCEDURE GetProductsByCategory(
69 IN input_category VARCHAR(100),
70 IN input_subcategory VARCHAR(100)
71)
72 BEGIN
73 SELECT id, product, brand, category, sub_category, sale_price, market_price, rating, type
74 FROM bigbasket
75 WHERE category = input_category
76 AND sub_category = input_subcategory;
77 END //

Result Grid

Filter Rows:

Export:

Wrap Cell Contents:

	id	product	brand	category	sub_category	sale_price	market_price	rating	type
▶	34	Green Tea - Tulsi Loose Leaf	Octavius	Beverages	Tea	225	225	3.7	Green Tea
	117	Spiced Tea - Blend Of 7 Refreshing Spices	Wagh Bakri	Beverages	Tea	150	150	4.3	Leaf & Dust Tea
	330	Tea - English Breakfast	Typhoo	Beverages	Tea	166	195	4.5	Tea Bags
	386	Black Tea	Tetley	Beverages	Tea	155	155	4.3	Tea Bags
	563	Green Tea - Mint, Good morning	Wagh Bakri	Beverages	Tea	75	150	4.5	Tea Bags
	579	Quick Chai Masala	Tata Tea	Beverages	Tea	109	140	3.5	Leaf & Dust Tea
	618	Nigiris Green Tea - Zoho Lemongrass	Teamonk	Beverages	Tea	200	400	5	Exotic & Flavoured Tea
	736	Nigiris Green Teabags - Anicca Chamomile	Teamonk	Beverages	Tea	298	425	5	Green Tea
	814	100% Green Tea	Sprig Tea	Beverages	Tea	142	149	3.8	Green Tea
	852	Green Tea - Jasmine	Typhoo	Beverages	Tea	166	195	3.9	Green Tea
	1201	Green Tea - Long Leaf	Tetley	Beverages	Tea	528	660	4.2	Green Tea

Result 10

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No object selected

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Administration Schemas

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Schema: live_session

```
81
82 # Task 9. Use CASE to assign discounts based on the market price of the products(>500 as high discount, from 200 to 500 as medium discount or else low discount).
83 select product, market_price,
84 case
85 when market_price > 500 then "high discount"
86 when market_price between 200 and 500 then "medium_discount"
87 else "low discount"
88 end market_saleprice_levels
89 from bigbasket;
```

Result Grid

product	market_price	market_saleprice_levels
Garlic Oil - Vegetarian Capsule 500 mg	220	medium_discount
Water Bottle - Orange	180	low discount
Brass Angle Deep - Plain, No.2	250	medium_discount
Cereal Flip Lid Container/Storage Jar - Assorted...	175	low discount
Creme Soft Soap - For Hands & Body	162	low discount
Germ - Removal Multipurpose Wipes	199	low discount
Multani Mati	58	low discount
Hand Sanitizer - 70% Alcohol Base	250	medium_discount
Biotin & Collagen Volumizing Hair Shampoo + Bio...	1098	high discount
Scrub Pad - Anti- Bacterial, Regular	20	low discount
Wheat Grass Powder - Raw	290	medium_discount
Butter Cookies Gold Collection	600	high discount
Face Wash - Oil Control, Active	110	low discount
Mold & Mildew Remover with Bleach	350	medium_discount
Just Spray - Mosquito Repellent Room Spray	200	medium_discount
Dove Plastic Soap Case - Assorted Colour	59	low discount
Smooth Skin Oil - For Dry Skin	360	medium_discount

Result 11

Output

Read Only