

ASSIGNMENT -01 HEXA BATCH

22,July,2025

Qn1:

Create a Product Catalog View with Price

**The Marketing Team needs a view of Active Products(model_year> 2018)
along with the brand,category and price**

**View needs to show the product_id,Product_name,brand_name,category_name,list_price
display the view using order by category_name,product_Name**

Query:

create view Product_Catalog

as

select pp.product_id,pp.product_name,pb.brand_name,pc.category_name,pp.list_price

from production.products pp join production.brands pb on pp.brand_id = pb.brand_id

join production.categories pc on pc.category_id=pp.category_id

where pp.model_year > 2018

select * from Product_Catalog order by category_name,brand_name

```
1  use bikestores
2
3  create view Product_Catalog
4  as
5  select pp.product_id,pp.product_name,pb.brand_name,pc.category_name,pp.list_price
6  from production.products pp join production.brands pb on pp.brand_id = pb.brand_id
7  join production.categories pc on pc.category_id=pp.category_id
8  where pp.model_year > 2018
9
10 select * from Product_Catalog order by category_name,brand_name
```

Output:

	product_id	product_name	brand_name	category_name	list_price
1	316	Trek Checkpoint ALR 4 Women's - 2019	Trek	Road Bikes	1699.99
2	317	Trek Checkpoint ALR 5 - 2019	Trek	Road Bikes	1999.99
3	318	Trek Checkpoint ALR 5 Women's - 2019	Trek	Road Bikes	1999.99
4	319	Trek Checkpoint SL 5 Women's - 2019	Trek	Road Bikes	2799.99
5	320	Trek Checkpoint SL 6 - 2019	Trek	Road Bikes	3799.99
6	321	Trek Checkpoint ALR Frameset - 2019	Trek	Road Bikes	3199.99

QN2:

The inventory team wants to identify products that haven't been sold. Create a view listing all products that have zero sales.

Query:

```
create view vw_nosales
```

```
as
```

```
select pp.product_id,pp.product_name,pp.list_price from production.products pp
```

```
where pp.product_id not in(select distinct product_id from sales.order_items)
```

```
select * from vw_nosales
```

```
13  |  | create view vw_nosales
14  |  | as
15  |  | select pp.product_id,pp.product_name,pp.list_price from production.products pp
16  |  | where pp.product_id not in(select distinct product_id from sales.order_items)
17  |  |
18  |  | select * from vw_nosales
19  |  |
```

Output:

	product_id	product_name	model_year	list_price
1	284	Electra Savannah 1 (20-inch) - Girl's - 2018	2018	319.99
2	195	Electra Townie Go! 8i Ladies' - 2018	2018	2599.99
3	318	Trek Checkpoint ALR 5 Women's - 2019	2019	1999.99
4	321	Trek Checkpoint ALR Frameset - 2019	2019	3199.99
5	267	Trek Precaliber 12 Girl's - 2018	2018	199.99
6	121	Surly Krampus Frameset - 2018	2018	2499.99
7	319	Trek Checkpoint SL 5 Women's - 2019	2019	2799.99
8	1	Trek 820 - 2016	2016	379.99
9	316	Trek Checkpoint ALR 4 Women's - 2019	2019	1699.99
10	125	Trek Kids' Dual Sport - 2018	2018	469.99
11	317	Trek Checkpoint ALR 5 - 2019	2019	1999.99
12	291	Electra Sweet Ride 1 (20-inch) - Girl's - 2018	2018	319.99
13	154	Trek Domane SLR 6 Disc Women's - 2018	2018	5499.99
14	320	Trek Checkpoint SL 6 - 2019	2019	3799.99

Qn3:

Ranks products within each category by list price (highest first)

Returns only the first product per category

Expected Output:

category_name, product_name, list_price — only one row per category

Query:

alter view ranking_data

as

select pc.category_name, pp.product_name, pp.list_price, ROW_NUMBER() over (partition by category_name order by category_name) as ranks

from production.products pp join production.categories pc on pp.category_id = pc.category_id

select * from ranking_data where ranks = 1

```
36 | alter view ranking_data
37 | as
38 | select pc.category_name, pp.product_name, pp.list_price, ROW_NUMBER() over (partition by category_name order by category_name) as ranks
39 | from production.products pp join production.categories pc on pp.category_id = pc.category_id
40 |
41 |
42 | select * from ranking_data where ranks = 1
43 |
```

Output:

Results

Messages

	category_name	product_name	list_price	ranks
1	Children Bicycles	Electra Cruiser 1 (24-Inch) - 2016	269.99	1
2	Comfort Bicycles	Electra Townie Original 21D - 2016	549.99	1
3	Cruisers Bicycles	Electra Townie Original 21D - 2016	549.99	1
4	Cyclocross Bicycles	Surly Straggler - 2016	1549.00	1
5	Electric Bikes	Trek Conduit+ - 2016	2999.99	1
6	Mountain Bikes	Trek 820 - 2016	379.99	1
7	Road Bikes	Trek Emonda S 4 - 2017	1499.99	1