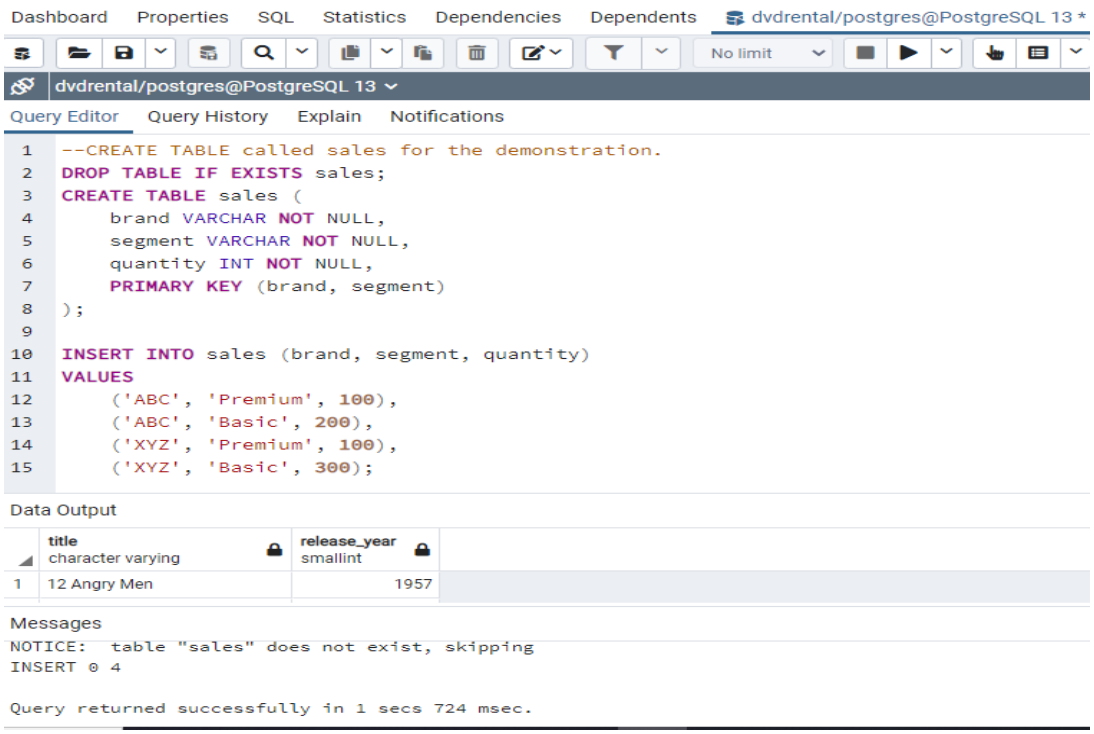
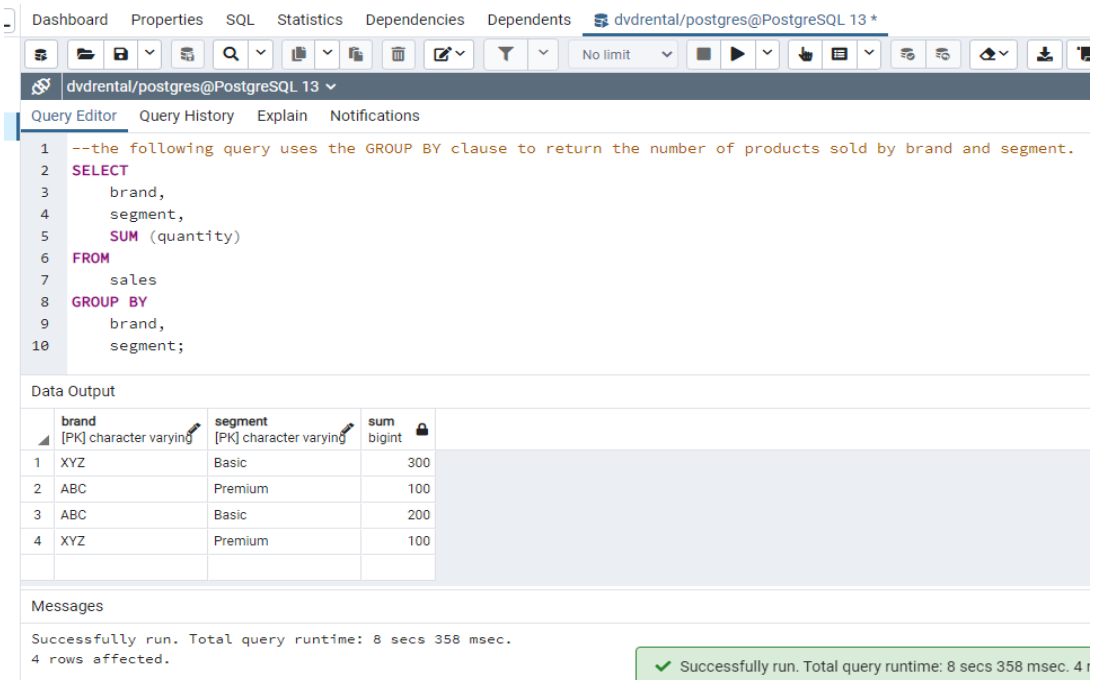
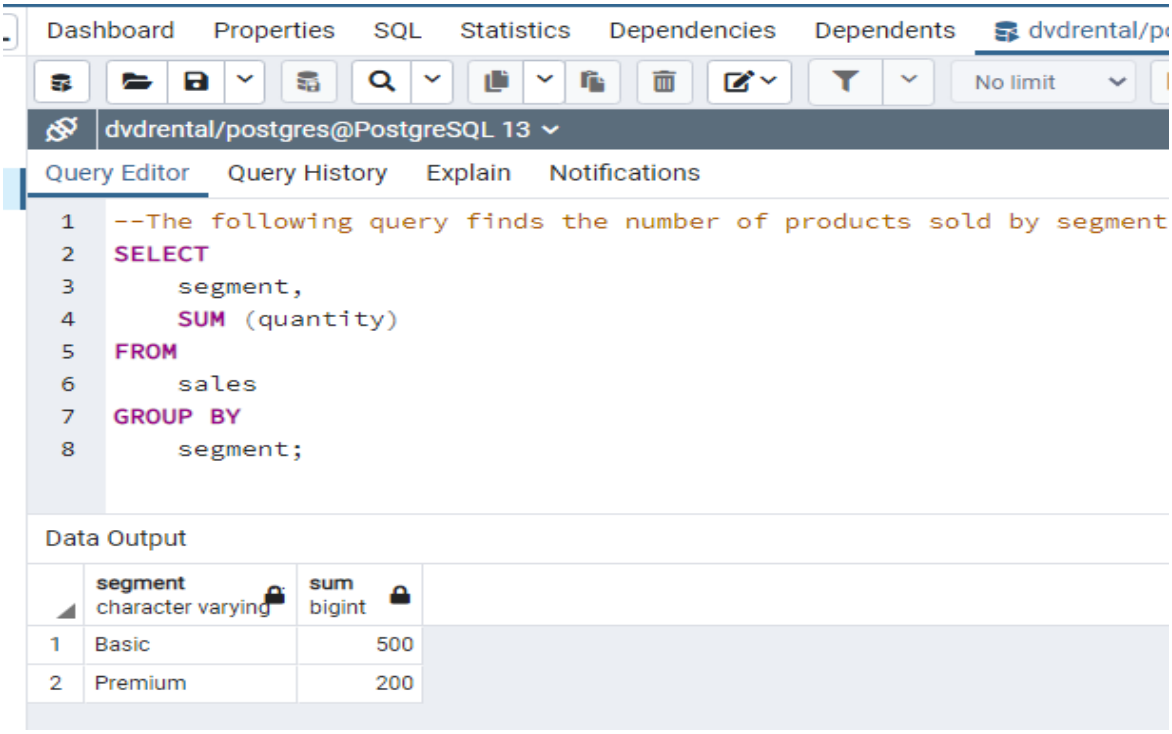
POSTGRESQL GROUPING SETS






Dashboard
Properties
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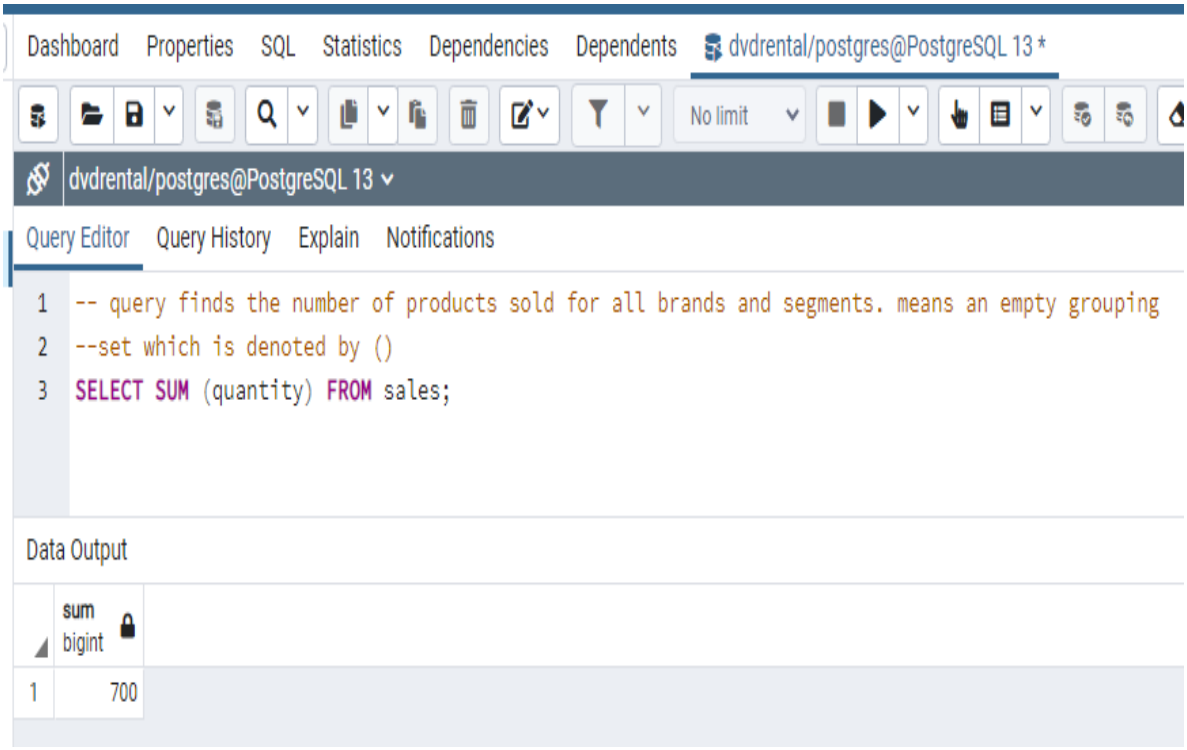
Query Editor
Query History
Explain
Notifications
1 --The following query finds the number of products sold by segment
2 SELECT
3 segment,
4 SUM (quantity)
5 FROM
6 sales
7 GROUP BY
8 segment;
Data Output
segment character varying
sum bigint
1 Basic 500
2 Premium 200


Dashboard
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SQL
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Dependents
dvdrental/postgres@PostgreSQL 13 *
No limit
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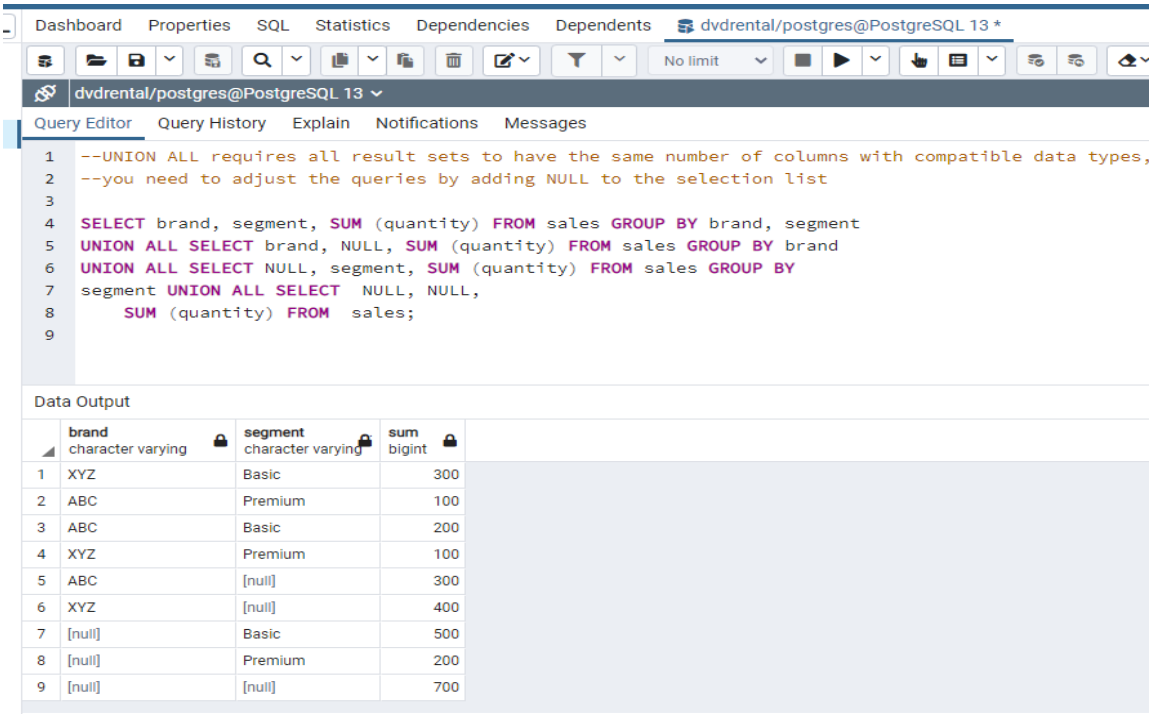
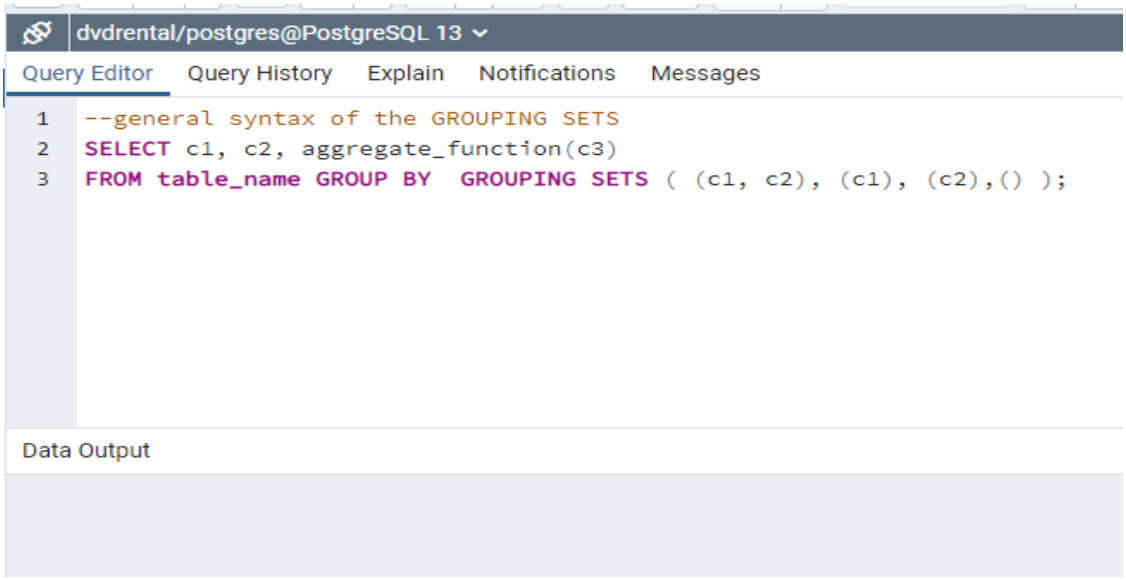
Query Editor
Query History
Explain
Notifications
1 -- query finds the number of products sold for all brands and segments. means an empty grouping
2 --set which is denoted by ()
3 SELECT SUM (quantity) FROM sales;
Data Output
sum bigint
1 700



	brand character varying	segment character varying	sum bigint
1	XYZ	Basic	300
2	ABC	Premium	100
3	ABC	Basic	200
4	XYZ	Premium	100
5	ABC	[null]	300
6	XYZ	[null]	400
7	[null]	Basic	500
8	[null]	Premium	200
9	[null]	[null]	700



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Query Editor | Query History | Explain | Notifications | Messages

```
1  -- use GROUPING SETS clause instead of the UNION ALL clause
2  SELECT
3      brand,
4      segment,
5      SUM (quantity)
6  FROM sales GROUP BY
7  GROUPING SETS ( (brand, segment), (brand), (segment),());
```

Data Output

	brand [PK] character varying	segment [PK] character varying	sum bigint
1	[null]	[null]	700
2	XYZ	Basic	300
3	ABC	Premium	100
4	ABC	Basic	200
5	XYZ	Premium	100
6	ABC	[null]	300
7	XYZ	[null]	400
8	[null]	Basic	500
9	[null]	Premium	200

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Query Editor | Query History | Explain | Notifications | Messages

```
1  --GROUPING() function returns bit 0 if the argument
2  --is a member of the current grouping set and 1 otherwise
3  SELECT
4      GROUPING(brand) grouping_brand,GROUPING(segment) grouping_segment, brand, segment,SUM (quantity)
5  FROM
6      sales
7  GROUP BY
8      GROUPING SETS ((brand),(segment),())
9      ORDER BY brand, segment;
```

Data Output

	grouping_brand integer	grouping_segment integer	brand [PK] character varying	segment [PK] character varying	sum bigint
1	0	1	ABC	[null]	300
2	0	1	XYZ	[null]	400
3	1	0	[null]	Basic	500
4	1	0	[null]	Premium	200
5	1	1	[null]	[null]	700

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Query Editor | Query History | Explain | Notifications | Messages

```
1  -- use the GROUPING() function in the HAVING clause to find the subtotal of each bran
2  SELECT
3      GROUPING(brand) grouping_brand,
4      GROUPING(segment) grouping_segment,
5      brand,
6      segment,
7      SUM (quantity)
8  FROM
9      sales
10 GROUP BY
11     GROUPING SETS (
12         (brand),
13         (segment),
14         ()
15     )
16 HAVING GROUPING(brand) = 0
17 ORDER BY
18     brand,
19     segment;
```

Data Output

	grouping_brand integer	grouping_segment integer	brand [PK] character varying	segment [PK] character varying	sum bigint
1	0	1	ABC	[null]	300
2	0	1	XYZ	[null]	400