



## 4. Top Markets, Customers, Products based on Net Sales

- ❖  $\text{Net pre invoice sales} = \text{Gross sales} - \text{Pre invoice deduction}$
- ❖  $\text{Net sales} = \text{Net pre invoice sales} - \text{Post invoice deduction}$

## Created view for pre invoice discount



CREATE

ALGORITHM = UNDEFINED

DEFINER = `root`@`localhost`

SQL SECURITY DEFINER

VIEW `gdb0041`.`sales\_preinv\_discount` AS

SELECT

```
`s`.`date` AS `date`,
`s`.`fiscal_year` AS `fiscal_year`,
`s`.`customer_code` AS `customer_code`,
`s`.`product_code` AS `product_code`,
`p`.`product` AS `product`,
`p`.`variant` AS `variant`,
`c`.`market` AS `market`,
`s`.`sold_quantity` AS `sold_quantity`,
`g`.`gross_price` AS `gross_price`,
(`g`.`gross_price` * `s`.`sold_quantity`) AS `total_gross_price`,
`pre`.`pre_invoice_discount_pct` AS `pre_invoice_discount_pct`
```

FROM

```
(((((`gdb0041`.`fact_sales_monthly` `s`
JOIN `gdb0041`.`dim_product` `p` ON (((`s`.`product_code` = `p`.`product_code`)))
JOIN `gdb0041`.`fact_gross_price` `g` ON (((`s`.`product_code` = `g`.`product_code`)
AND (`s`.`fiscal_year` = `g`.`fiscal_year`))))
JOIN `gdb0041`.`fact_pre_invoice_deductions` `pre` ON (((`pre`.`customer_code` = `s`.`customer_code`)
AND (`s`.`fiscal_year` = `pre`.`fiscal_year`))))
JOIN `gdb0041`.`dim_customer` `c` ON (((`c`.`customer_code` = `s`.`customer_code`))))
```

4

5 • SELECT \* FROM gdb0041.sales\_preinv\_discount;

Result Grid



Filter Rows:

Export:



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Fetch rows:



date	fiscal_year	customer_code	product_code	product	variant	market	sold_quantity	gross_price	total_gross_price	pre_invoice_discount_pct
2017-09-01	2018	70002017	A0118150101	AQ Dracul...	Standard	India	51	15.3952	785.1552	0.0824
2017-09-01	2018	70002018	A0118150101	AQ Dracul...	Standard	India	77	15.3952	1185.4304	0.2956
2017-09-01	2018	70003181	A0118150101	AQ Dracul...	Standard	Indonesia	17	15.3952	261.7184	0.0536
2017-09-01	2018	70003182	A0118150101	AQ Dracul...	Standard	Indonesia	6	15.3952	92.3712	0.2378
2017-09-01	2018	70006157	A0118150101	AQ Dracul...	Standard	Philippines	5	15.3952	76.9760	0.1057
2017-09-01	2018	70006158	A0118150101	AQ Dracul...	Standard	Philippines	7	15.3952	107.7664	0.1875
2017-09-01	2018	70007198	A0118150101	AQ Dracul...	Standard	South Korea	29	15.3952	446.4608	0.0700
2017-09-01	2018	70007199	A0118150101	AQ Dracul...	Standard	South Korea	34	15.3952	523.4368	0.2551
2017-09-01	2018	70008169	A0118150101	AQ Dracul...	Standard	Australia	22	15.3952	338.6944	0.0953
2017-09-01	2018	70008170	A0118150101	AQ Dracul...	Standard	Australia	5	15.3952	76.9760	0.1896

## Created view for post invoice discount



CREATE

ALGORITHM = UNDEFINED

DEFINER = `root`@`localhost`

SQL SECURITY DEFINER

VIEW `gdb0041`.`post\_invoice\_discount` AS

SELECT

```
`gdb0041`.`sales_preinv_discount`.`date` AS `date`,
`gdb0041`.`sales_preinv_discount`.`fiscal_year` AS `fiscal_year`,
`gdb0041`.`sales_preinv_discount`.`product_code` AS `product_code`,
`gdb0041`.`sales_preinv_discount`.`customer_code` AS `customer_code`,
`gdb0041`.`sales_preinv_discount`.`product` AS `product`,
`gdb0041`.`sales_preinv_discount`.`variant` AS `variant`,
`gdb0041`.`sales_preinv_discount`.`market` AS `market`,
`gdb0041`.`sales_preinv_discount`.`sold_quantity` AS `sold_quantity`,
`gdb0041`.`sales_preinv_discount`.`gross_price` AS `gross_price`,
`gdb0041`.`sales_preinv_discount`.`total_gross_price` AS `total_gross_price`,
`gdb0041`.`sales_preinv_discount`.`pre_invoice_discount_pct` AS `pre_invoice_discount_pct`,
ROUND((((1 - `gdb0041`.`sales_preinv_discount`.`pre_invoice_discount_pct`) * `gdb0041`.`sales_preinv_discount`.`total_gross_price`)),
2) AS `net_invoice_sales`,
(`po`.`discounts_pct` + `po`.`other_deductions_pct`) AS `post_invoice_discount_pct`
```

FROM

```
(`gdb0041`.`sales_preinv_discount`
JOIN `gdb0041`.`fact_post_invoice_deductions` `po` ON (((`po`.`customer_code` = `gdb0041`.`sales_preinv_discount`.`customer_code`)
AND (`po`.`product_code` = `gdb0041`.`sales_preinv_discount`.`product_code`)
AND (`po`.`date` = `gdb0041`.`sales_preinv_discount`.`date`))))
```

12

13 • SELECT \* FROM gdb0041.post\_invoice\_discount;

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



Fetch rows:



	date	fiscal_year	product_code	customer_code	product	variant	market	sold_quantity	gross_price	total_gross_price	pre_invoice_discount_pct	net_invoice_sales	post_invoice_discount_pct
▶	2017-09-01	2018	A0118150101	70002017	AQ Dracula...	Standard	India	51	15.3952	785.1552	0.0824	720.46	0.3379
	2017-09-01	2018	A0118150101	70002018	AQ Dracula...	Standard	India	77	15.3952	1185.4304	0.2956	835.02	0.4013
	2017-09-01	2018	A0118150101	70003181	AQ Dracula...	Standard	Indonesia	17	15.3952	261.7184	0.0536	247.69	0.3752
	2017-09-01	2018	A0118150101	70003182	AQ Dracula...	Standard	Indonesia	6	15.3952	92.3712	0.2378	70.41	0.3446



## Created view for net sales

```

CREATE
  ALGORITHM = UNDEFINED
  DEFINER = `root`@`localhost`
  SQL SECURITY DEFINER
VIEW `gdb0041`.`net_sales` AS
SELECT
  `gdb0041`.`post_invoice_discount`.`date` AS `date`,
  `gdb0041`.`post_invoice_discount`.`fiscal_year` AS `fiscal_year`,
  `gdb0041`.`post_invoice_discount`.`product_code` AS `product_code`,
  `gdb0041`.`post_invoice_discount`.`product` AS `product`,
  `gdb0041`.`post_invoice_discount`.`variant` AS `variant`,
  `gdb0041`.`post_invoice_discount`.`customer_code` AS `customer_code`,
  `gdb0041`.`post_invoice_discount`.`market` AS `market`,
  `gdb0041`.`post_invoice_discount`.`sold_quantity` AS `sold_quantity`,
  `gdb0041`.`post_invoice_discount`.`gross_price` AS `gross_price`,
  `gdb0041`.`post_invoice_discount`.`total_gross_price` AS `total_gross_price`,
  `gdb0041`.`post_invoice_discount`.`pre_invoice_discount_pct` AS `pre_invoice_discount_pct`,
  `gdb0041`.`post_invoice_discount`.`post_invoice_discount_pct` AS `post_invoice_discount_pct`,
  `gdb0041`.`post_invoice_discount`.`net_invoice_sales` AS `net_invoice_sales`,
  ((1 - `gdb0041`.`post_invoice_discount`.`post_invoice_discount_pct`) * `gdb0041`.`post_invoice_discount`.`net_invoice_sales`) AS `net_sales`
FROM
  `gdb0041`.`post_invoice_discount`

```

13 • `SELECT * FROM gdb0041.net_sales;`

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

	date	fiscal_yea	product_cod	product	variant	customer_cod	market	sold_quan	gross_price	total_gross_price	pre_invoice_	post_invoic	net_invoic	net_sales
▶	2017-09-01	2018	A011815...	AQ Drac...	Standard	70002017	India	51	15.3952	785.1552	0.0824	0.3379	720.46	477.016566
	2017-09-01	2018	A011815...	AQ Drac...	Standard	70002018	India	77	15.3952	1185.4304	0.2956	0.4013	835.02	499.926474
	2017-09-01	2018	A011815...	AQ Drac...	Standard	70003181	Indonesia	17	15.3952	261.7184	0.0536	0.3752	247.69	154.756712
	2017-09-01	2018	A011815...	AQ Drac...	Standard	70003182	Indonesia	6	15.3952	92.3712	0.2378	0.3446	70.41	46.146714
	2017-09-01	2018	A011815...	AQ Drac...	Standard	70006157	Philipi...	5	15.3952	76.9760	0.1057	0.3065	68.84	47.740540
	2017-09-01	2018	A011815...	AQ Drac...	Standard	70006158	Philipi...	7	15.3952	107.7664	0.1875	0.3587	87.56	56.152228
	2017-09-01	2018	A011815...	AQ Drac...	Standard	70007198	South ...	29	15.3952	446.4608	0.0700	0.3343	415.21	276.405297
	2017-09-01	2018	A011815...	AQ Drac...	Standard	70007199	South ...	34	15.3952	523.4368	0.2551	0.4168	389.91	227.395512
	2017-09-01	2018	A011815...	AQ Drac...	Standard	70008169	Australia	22	15.3952	338.6944	0.0953	0.3129	306.42	210.541182

# Top markets by net sales



```
1 CREATE DEFINER='root'@'localhost' PROCEDURE `Top_n_markets_by_net_sales`(  
2   in_top_n int,  
3   in_fiscal_year int  
4 )  
5 BEGIN  
6   select market,  
7     round(sum(net_sales)/1000000,2) as net_sales_mln  
8   from net_sales  
9   where fiscal_year = in_fiscal_year  
10  group by market  
11  order by net_sales_mln  
12  desc limit in_top_n;  
13  END
```

```
12 • call gdb0041.Top_n_markets_by_net_sales(5, 2021);  
13
```

Result Grid

Filter Rows:

Export:

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	market	net_sales_mln
▶	India	210.67
	USA	132.05
	South Korea	64.01
	Canada	45.89
	United Kingdom	44.73

# Top customers by net sales



```
1 CREATE DEFINER='root'@'localhost' PROCEDURE `Top_n_customers_by_net_sales`(  
2   in_top_n int,  
3   in_fiscal_year int,  
4   in_market varchar(45))  
5 BEGIN  
6   select customer,  
7     round(sum(net_sales)/1000000,2) as net_sales_mln  
8   from net_sales n  
9   join dim_customer c using (customer_code)  
10  where fiscal_year = in_fiscal_year  
11    and n.market = in_market  
12    group by customer  
13    order by net_sales_mln  
14    desc limit in_top_n;  
15  
16 END
```

```
11  
12 • call gdb0041.Top_n_customers_by_net_sales(5, 2021, 'india');  
13
```

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

	customer	net_sales_mln
▶	Amazon	30.00
	Atliq Exclusive	23.98
	Flipkart	12.96
	Electricalsociety	12.31
	Propel	11.86



# Top products by net sales



```
1 • CREATE DEFINER='root'@'localhost' PROCEDURE `Top_n_products_by_net_sales` (  
2   in_top_n int,  
3   in_fiscal_year int)  
4 BEGIN  
5   select product,  
6     round(sum(net_sales)/1000000,2) as net_sales_mln  
7   from net_sales  
8   where fiscal_year = in_fiscal_year  
9  
10  group by product  
11  order by net_sales_mln  
12  desc limit in_top_n;  
13  
14  END
```

```
11  
12 • call gdb0041.Top_n_products_by_net_sales(5, 2021);  
13
```

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

	product	net_sales_mln
•	AQ BZ Allin1	33.75
	AQ Qwerty	27.84
	AQ Trigger	26.95
	AQ Gen Y	23.58
	AQ Maxima	22.32