

Query Query History

```

1  -- A Basic SELECT with WHERE, ORDER BY, GROUP BY
2  -- Get total sales per country
3  SELECT billing_country, SUM(total) AS total_sales
4  FROM invoice
5  GROUP BY billing_country
6  ORDER BY total_sales DESC;
7




```

Data Output Messages Notifications








Showing rows: 1 to 24  Page No: 1 of 1  

	billing_country character varying (30) 	total_sales double precision 
1	USA	1040.4899999999998
2	Canada	535.5900000000001
3	Brazil	427.68000000000006
4	France	389.06999999999999
5	Germany	334.62
6	Czech Republic	273.24000000000007
7	United Kingdom	245.52
8	Portugal	185.13000000000002
9	India	183.14999999999998
10	Ireland	114.83999999999997
11	Spain	98.01
12	Chile	97.02000000000001
13	Australia	81.18
14	Finland	79.2
15	Hungary	78.21
16	Poland	76.22999999999999
17	Sweden	75.24

Query Query History

```
1 -- Using JOINS (INNER, LEFT, RIGHT)
2 -- List invoices with customer names (assuming customer table has customer_id and name)
3 SELECT i.invoice_id, c.first_name, c.last_name, i.total
4 FROM invoice i
5 INNER JOIN customer c ON i.customer_id = c.customer_id
6 ORDER BY i.total DESC;
7
```

Data Output Messages Notifications

	invoice_id integer	first_name character (50)	last_name character (50)	total double precision
1	183	Wyatt	Girard	23.759999999999998
2	526	R	Madhav	19.8
3	92	Aaron	Mitchell	19.8
4	362	Robert	Brown	19.8
5	31	François	Tremblay	19.8
6	276	Heather	Leacock	18.81
7	141	Ladislav	Kovács	17.82
8	175	Camille	Bernard	17.82
9	582	R	Madhav	17.82
10	604	Hugh	O'Reilly	17.82
11	223	Luis	Gonçalves	17.82
12	54	Richard	Cunningham	17.82
13	99	Mark	Taylor	17.82
14	389	Frank	Harris	16.83
15	344	François	Tremblay	16.83
16	114	Roberto	Almeida	16.83
17	112	Helena	Holý	16.83

Query Query History

```
1 -- Subquery Example
2 -- Get customers who have made at least one invoice
3 SELECT first_name, last_name
4 FROM customer
5 WHERE customer_id IN (
6     SELECT customer_id
7     FROM invoice
8 );
```

Data Output Messages Notifications

Showing rows: 1 to 59

	first_name character (50)	last_name character (50)
1	Luis	Gonçalves
2	Leonie	Köhler
3	François	Tremblay
4	Bjørn	Hansen
5	Helena	Holý
6	Astrid	Gruber
7	Daan	Peeters
8	Kara	Nielsen
9	Eduardo	Martins
10	Alexandre	Rocha
11	Roberto	Almeida
12	Fernanda	Ramos
13	Mark	Philips
14	Jennifer	Peterson
15	Frank	Harris
16	Jack	Smith
17	Michelle	Brooks

Total rows: 59 Query complete 00:00:00.148

Query Query History

```

1  -- Aggregate Functions (SUM, AVG, COUNT)
2  -- Average invoice amount per city
3  SELECT billing_city, AVG(total) AS avg_invoice
4  FROM invoice
5  GROUP BY billing_city
6  ORDER BY avg_invoice DESC;
7

```

Data Output Messages Notifications

Showing rows: 1 to 53 Page No: 1 of 1

	billing_city character varying (30)	avg_invoice double precision
1	Montréal	11.11
2	Toronto	10.1475
3	New York	9.9
4	Frankfurt	9.405000000000001
5	Tucson	9.35
6	Prague	9.108000000000002
7	Bordeaux	9.09
8	Bangalore	8.91
9	Chicago	8.91
10	Madrid	8.91
11	Dublin	8.833846153846151
12	Edinburgh	8.8
13	Winnipeg	8.786249999999999
14	London	8.753684210526316
15	Brussels	8.627142857142855
16	Delhi	8.605384615384615
17	Mountain View	8.4645

Query Query History

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```
1  -- Create a View for Analysis
2  -- View: invoice summary with city and total
3  CREATE VIEW city_invoice_summary AS
4  SELECT billing_city, COUNT(*) AS total_invoices, SUM(total) AS total_revenue
5  FROM invoice
6  GROUP BY billing_city;
```

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Data Output Messages Notifications

CREATE VIEW

Query returned successfully in 66 msec.

Query Query History

```
1 --🔧 Optimize with Indexes
2 -- Create index on total column for faster queries involving invoice totals
3 CREATE INDEX idx_invoice_date ON invoice(invoice_date);
4
5
```

Data Output Messages Notifications

CREATE INDEX

Query returned successfully in 165 msec.