


```

1 • CREATE DATABASE online_sales;
2 • USE online_sales;
3
4 • CREATE TABLE online_sales (
5     invoice VARCHAR(20),
6     stockcode VARCHAR(20),
7     description TEXT,
8     quantity INT,
9     invoicedate DATETIME,
10    price DECIMAL(10,2),
11    customer_id INT,
12    country VARCHAR(50)
13 );
14 • select * from online_sales;
15 • select count(*) from online_sales;

```

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

	count(*)
1	43441

```

17 -- 1. Monthly revenue
18 • SELECT
19     EXTRACT(YEAR FROM invoicedate) AS year,
20     EXTRACT(MONTH FROM invoicedate) AS month,
21     ROUND(SUM(quantity * price), 2) AS monthly_revenue
22 FROM online_sales
23 GROUP BY year, month
24 ORDER BY year, month;
25

```

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



	year	month	monthly_revenue
▶	2009	12	663272.05
	2010	1	326857.47

```

26      -- 2. Monthly order volume
27  •    SELECT
28          EXTRACT(YEAR FROM invoicedate) AS year,
29          EXTRACT(MONTH FROM invoicedate) AS month,
30          COUNT(DISTINCT invoice) AS order_volume
31  FROM online_sales
32  GROUP BY year, month
33  ORDER BY year, month;

```

34

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


	year	month	order_volume
	2009	12	1900
	2010	1	668

```

35      -- 3. Monthly revenue & volume together
36  •    SELECT
37          EXTRACT(YEAR FROM invoicedate) AS year,
38          EXTRACT(MONTH FROM invoicedate) AS month,
39          ROUND(SUM(quantity * price), 2) AS monthly_revenue,
40          COUNT(DISTINCT invoice) AS order_volume
41  FROM online_sales
42  GROUP BY year, month
43  ORDER BY year, month;

```

44





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

	year	month	monthly_revenue	order_volume
▶	2009	12	663272.05	1900
	2010	1	326857.47	668

```

45  -- 4. Limit to a specific time period (e.g., only 2010)
46  •  SELECT
47      EXTRACT(YEAR FROM invoicedate) AS year,
48      EXTRACT(MONTH FROM invoicedate) AS month,
49      ROUND(SUM(quantity * price), 2) AS monthly_revenue,
50      COUNT(DISTINCT invoice) AS order_volume
51  FROM online_sales
52  WHERE EXTRACT(YEAR FROM invoicedate) = 2010
53  GROUP BY year, month
54  ORDER BY year, month;
55





```

Result Grid   Filter Rows: <input type="text"/>   Export:    Wrap Cell Content: 				
	year	month	monthly_revenue	order_volume
▶	2010	1	326857.47	668

```

56  -- 5. Limit to a specific month/year (e.g., Dec 2009)
57  •  SELECT
58      EXTRACT(YEAR FROM invoicedate) AS year,
59      EXTRACT(MONTH FROM invoicedate) AS month,
60      ROUND(SUM(quantity * price), 2) AS monthly_revenue,
61      COUNT(DISTINCT invoice) AS order_volume
62  FROM online_sales
63  WHERE EXTRACT(YEAR FROM invoicedate) = 2009
64      AND EXTRACT(MONTH FROM invoicedate) = 12
65  GROUP BY year, month;
66

```

Result Grid   Filter Rows: <input type="text"/>   Export:    Wrap Cell Content: 				
	year	month	monthly_revenue	order_volume
▶	2009	12	663272.05	1900

```

67      -- 6. Top 10 products by sales amount
68 •    SELECT
69         stockcode,
70         description,
71         ROUND(SUM(quantity * price), 2) AS total_sales
72     FROM online_sales
73     GROUP BY stockcode, description
74     ORDER BY total_sales DESC
75     LIMIT 10;

```

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

stockcode	description	total_sales
85123A	WHITE HANGING HEART T-LIGHT HOLDER	24509.51
15056BL	EDWARDIAN PARASOL BLACK	12750.00
85099B	JUMBO BAG RED WHITE SPOTTY	10510.05
20679	EDWARDIAN PARASOL RED	10361.85
15056N	EDWARDIAN PARASOL NATURAL	8437.45
84879	ASSORTED COLOUR BIRD ORNAMENT	8279.60
85014B	RED/WHITE DOTS RUFFLED UMBRELLA	8070.70
22086	PAPER CHAIN KIT 50'S CHRISTMAS	7578.90
22111	SCOTTIE DOG HOT WATER BOTTLE	7514.00
85014A	BLACK/BLUE DOTS RUFFLED UMBRELLA	7247.50

```

77      -- 7 Top 10 products by quantity sold
78 •    SELECT
79         stockcode,
80         description,
81         SUM(quantity) AS total_quantity
82     FROM online_sales
83     GROUP BY stockcode, description
84     ORDER BY total_quantity DESC
85     LIMIT 10;

```

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

stockcode	description	total_quantity
85123A	WHITE HANGING HEART T-LIGHT HOLDER	9279
21212	PACK OF 72 RETRO SPOT CAKE CASES	6834
85099B	JUMBO BAG RED WHITE SPOTTY	6075
21980	PACK OF 12 RED SPOTTY TISSUES	6056
84879	ASSORTED COLOUR BIRD ORNAMENT	5240
21967	PACK OF 12 SKULL TISSUES	5232
21984	PACK OF 12 PINK PAISLEY TISSUES	5034
21981	PACK OF 12 WOODLAND TISSUES	4839
16014	SMALL CHINESE STYLE SCISSOR	4550
21232	STRAWBERRY CERAMIC TRINKET BOX	4224

```

87      -- 8. Total revenue by country
88  •    SELECT
89          country,
90          ROUND(SUM(quantity * price), 2) AS total_revenue
91  FROM online_sales
92  GROUP BY country
93  ORDER BY total_revenue DESC;

```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	country	total_revenue			
▶	United Kingdom	848390.94			
	EIRE	67013.65			
	Netherlands	15691.06			
	Germany	14492.88			
	France	12993.62			
	Spain	8679.07			
	Cyprus	3425.08			
	Portugal	2821.58			
	Denmark	2265.66			
	Austria	1998.34			
	Belgium	1962.47			
	USA	1834.64			

```

95      -- 9. Number of customers by country
96  •    SELECT
97          country,
98          COUNT(DISTINCT customer_id) AS customer_count
99  FROM online_sales
100 WHERE customer_id IS NOT NULL
101 GROUP BY country
102 ORDER BY customer_count DESC;
103

```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	country	customer_count			
▶	United Kingdom	1159			
	Germany	17			
	France	15			
	Spain	5			
	Netherlands	4			
	Australia	3			
	Belgium	3			
	Cyprus	3			
	Denmark	3			
	EIRE	3			
	USA	3			
	Austria	2			

```

104      -- 10. Daily revenue trend
105  •    SELECT
106          DATE(invoicedate) AS order_date,
107          ROUND(SUM(quantity * price), 2) AS daily_revenue
108      FROM online_sales
109      GROUP BY DATE(invoicedate)
110      ORDER BY order_date;

```

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

	order_date	daily_revenue
▶	2009-12-01	42708.22
	2009-12-02	52578.19
	2009-12-03	61534.22
	2009-12-04	33686.86
	2009-12-05	9803.05
	2009-12-06	24284.28
	2009-12-07	32423.30