

a. Use `EXTRACT(MONTH FROM order_date)` for month.

```
mysql> select extract(month from order_date) as Month from online_sales;
```

Month
4
2
11
8
7
6
9
6
11
7
8
7
12
2
6
11
7
11
3
11
3
1
4
9
3
10
10
1
7
7
5
1
1
10
8
8
11
6
12
6
3
1
3
12
6
5
9
2
8
5

```
50 rows in set (0.00 sec)
```

## b.GROUP BY year/month.

```
mysql> select extract(year from order_date) as Year from online_sales;
```

Year
2025
2025
2023
2024
2023
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2024
2023
2024
2023
2024
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2024
2025

```
50 rows in set (0.00 sec)
```

c. Use SUM() for revenue.

```
mysql> select sum(amount) as Monthly_Revenue from online_sales;
+-----+
| Monthly_Revenue |
+-----+
|          28043.65 |
+-----+
1 row in set (0.01 sec)
```

d. COUNT(DISTINCT order\_id) for volume.

```
mysql> select count(distinct order_id) as Order_Volume from online_sales;
+-----+
| Order_Volume |
+-----+
|             50 |
+-----+
1 row in set (0.01 sec)
```

e. Limit results for specific time periods.

```
mysql> select * from online_sales where extract(year from order_date) = 2024;
+-----+-----+-----+-----+
| order_id | order_date | amount | product_id |
+-----+-----+-----+-----+
| 8447 | 2024-08-31 | 365.98 | 222 |
| 3395 | 2024-09-27 | 490.53 | 420 |
| 8838 | 2024-11-29 | 771.66 | 274 |
| 1659 | 2024-07-25 | 661.45 | 91 |
| 9737 | 2024-07-25 | 485.54 | 306 |
| 4307 | 2024-02-18 | 433.21 | 62 |
| 6863 | 2024-06-27 | 159.18 | 420 |
| 5675 | 2024-11-04 | 917.86 | 188 |
| 2809 | 2024-11-22 | 537.77 | 201 |
| 3904 | 2024-11-14 | 517.20 | 90 |
| 9506 | 2024-01-05 | 240.98 | 216 |
| 2958 | 2024-04-04 | 797.11 | 341 |
| 3284 | 2024-09-05 | 648.49 | 479 |
| 5676 | 2024-10-27 | 694.89 | 236 |
| 1150 | 2024-05-26 | 573.24 | 387 |
| 5140 | 2024-01-29 | 390.76 | 191 |
| 3139 | 2024-08-24 | 243.66 | 190 |
| 8071 | 2024-08-24 | 778.21 | 454 |
| 4346 | 2024-01-31 | 607.91 | 72 |
| 9115 | 2024-12-17 | 450.19 | 48 |
| 1182 | 2024-06-08 | 235.75 | 462 |
| 9592 | 2024-02-07 | 777.25 | 111 |
| 9369 | 2024-08-06 | 635.30 | 143 |
+-----+-----+-----+-----+
23 rows in set (0.00 sec)
```

## f. Use ORDER BY for sorting

```
mysql> select * from online_sales order by amount;
```

order_id	order_date	amount	product_id
9209	2023-12-15	13.50	231
8874	2023-06-06	42.29	452
5621	2023-07-30	68.70	459
6799	2025-05-18	100.57	475
6863	2024-06-27	159.18	420
9294	2025-03-20	185.83	81
2237	2025-04-22	211.90	421
1182	2024-06-08	235.75	462
9506	2024-01-05	240.98	216
3139	2024-08-24	243.66	190
8016	2023-07-07	251.40	440
8447	2024-08-31	365.98	222
5140	2024-01-29	390.76	191
4307	2024-02-18	433.21	62
2220	2025-03-30	434.36	447
9115	2024-12-17	450.19	48
9737	2024-07-25	485.54	306
3395	2024-09-27	490.53	420
3904	2024-11-14	517.20	90
2809	2024-11-22	537.77	201
4456	2025-03-28	548.32	253
6917	2025-02-20	567.28	473
1150	2024-05-26	573.24	387
8255	2023-07-22	598.79	356
6248	2023-12-26	605.68	278
4346	2024-01-31	607.91	72
7740	2023-11-30	616.03	347
1357	2023-09-02	622.16	298
9369	2024-08-06	635.30	143
3284	2024-09-05	648.49	479
2479	2023-08-28	648.69	86
5390	2023-10-09	655.76	179
1659	2024-07-25	661.45	91
2947	2025-01-02	675.88	163
3637	2023-07-18	687.05	291
5676	2024-10-27	694.89	236
8838	2024-11-29	771.66	274
8737	2025-01-01	776.89	55
9592	2024-02-07	777.25	111
8071	2024-08-24	778.21	454
2958	2024-04-04	797.11	341
2874	2023-11-01	803.96	500
5882	2023-10-15	840.41	108
1758	2023-05-26	844.32	201
5675	2024-11-04	917.86	188
5654	2023-06-30	947.51	192
3277	2023-06-04	949.25	184
1292	2023-06-28	961.14	221
1993	2025-03-06	976.91	488
7339	2025-03-07	994.95	171

```
50 rows in set (0.00 sec)
```

