

## SQL Queries

- **ROW\_NUMBER() vs RANK() vs DENSE\_RANK()**

```
106 • SELECT product_code,  
107     sales_amount,  
108     ROW_NUMBER() OVER  
109     (PARTITION BY product_code  
110      ORDER BY sales_amount DESC) as RowNumber,  
111     RANK() OVER  
112     (PARTITION BY product_code  
113      ORDER BY sales_amount DESC) as RankValues,  
114     DENSE_RANK() OVER  
115     (PARTITION BY product_code  
116      ORDER BY sales_amount DESC) as DenseRankValues  
117 FROM transactions  
118 WHERE product_code IS NOT NULL  
119 AND product_code IN ('Prod003', 'Prod003', 'Prod049', 'Prod279')  
120 AND sales_amount IN ('250', '833', '204');  
121
```

100% 1:121

Result Grid Filter Rows: Search Export:

product_co...	sales_amount	RowNumber	RankValues	DenseRankValues
Prod049	833	1	1	1
Prod049	833	2	1	1
Prod279	833	1	1	1
Prod279	833	2	1	1
Prod279	833	3	1	1
Prod279	833	4	1	1
Prod279	833	5	1	1
Prod279	833	6	1	1

Result Grid Filter Rows: Search Export:

product_co...	sales_amount	RowNumber	RankValues	DenseRankValues
Prod279	250	7	7	2
Prod279	250	8	7	2
Prod279	250	9	7	2
Prod279	250	10	7	2
Prod279	250	11	7	2
Prod279	250	12	7	2
Prod279	250	13	7	2
Prod279	250	14	7	2

```

98 • SELECT product_code,
99     COUNT(CASE WHEN product_code = 'prod279' THEN product_code END) AS PRD1,
100     COUNT(CASE WHEN product_code = 'prod278' THEN product_code END) AS PRD2,
101     COUNT(CASE WHEN product_code = 'prod281' THEN product_code END) AS PRD3
102 FROM transactions
103 WHERE product_code IN ('prod279', 'prod278', 'prod281')
104 GROUP BY product_code;

```

100% 27:104

Result Grid Filter Rows: Search Export:

product_co...	PRD1	PRD2	PRD3
Prod279	1477	0	0
Prod278	0	1455	0
Prod281	0	0	1858

```

88 • SELECT movie_id,
89     title,
90     industry,
91     imdb_rating,
92     CASE WHEN imdb_rating > 7 THEN 'Good'
93         WHEN imdb_rating < 7 THEN 'Bad'
94         ELSE 'Average'
95     END AS Performance
96 FROM movies;

```

100% 13:96


Result Grid Filter Rows: Search Export:

movie_id	title	industry	imdb_rating	Performance
101	K.G.F: Chapter 2	Bollywood	8.4	Good
102	Doctor Strange in the Multiverse of Madness	Hollywood	7	Average
103	Thor: The Dark World	Hollywood	6.8	Bad
104	Thor: Ragnarok	Hollywood	7.9	Good
105	Thor: Love and Thunder	Hollywood	6.8	Bad
107	Dilwale Dulhania Le Jayenge	Bollywood	8	Good
108	3 Idiots	Bollywood	8.4	Good
109	Kabhi Khushi Kabhie Gham	Bollywood	7.4	Good
110	Bajirao Mastani	Bollywood	7.2	Good
111	The Shawshank Redemption	Hollywood	9.3	Good
113	Interstellar	Hollywood	8.6	Good
115	The Pursuit of Happyness	Hollywood	8	Good
116	Gladiator	Hollywood	8.5	Good
117	Titanic	Hollywood	7.9	Good

```

68 • WITH t AS
69 (
70     SELECT DISTINCT title
71     FROM movies
72     WHERE industry = 'Hollywood'
73     AND imdb_rating > 6
74 ),
75 ry AS
76 (
77     SELECT DISTINCT release_year
78     FROM movies
79     WHERE release_year = '2022'
80     AND imdb_rating > 6
81 )
82 SELECT title, release_year, imdb_rating
83 FROM movies
84 WHERE release_year IN (SELECT release_year FROM ry)
85 AND title IN (SELECT title FROM t)
86 ORDER BY imdb_rating DESC;

```

Result Grid			
Filter Rows:		Q Search	Export: 
title	release_year	imdb_rating	
▶ Doctor Strange in the Multiverse of Madness	2022	7	

```

42 • SELECT m.movie_id, title, budget, revenue, currency, unit
43 FROM movies m
44 LEFT JOIN financials f
45 ON m.movie_id=f.movie_id;
46

```

100%

26:45

Result Grid




Filter Rows:

Export:

	movie_id	title	budget	revenue	currency	unit	
	101	K.G.F: Chapter 2	1	12.5	INR	Billions	
	102	Doctor Strange in the Multiverse of Madness	200	954.8	USD	Millions	
	103	Thor: The Dark World	165	644.8	USD	Millions	
	104	Thor: Ragnarok	180	854	USD	Millions	
	105	Thor: Love and Thunder	250	670	USD	Millions	
	107	Dilwale Dulhania Le Jayenge	400	2000	INR	Millions	
	108	3 Idiots	550	4000	INR	Millions	
	109	Kabhi Khushi Kabhie Gham	390	1360	INR	Millions	
	110	Bajirao Mastani	1.4	3.5	INR	Billions	
	111	The Shawshank Redemption	25	73.3	USD	Millions	

```
29 • SELECT release_year, COUNT(*) as movies_count
30 FROM movies
31 GROUP BY release_year
32 having movies_count>2
33 ORDER BY movies_count desc;
34
```

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**Result Grid**   Filter Rows:  Export: 

	release_year	movies_count
▶	2022	5
▢	2015	3
	2014	3
▢	2018	3