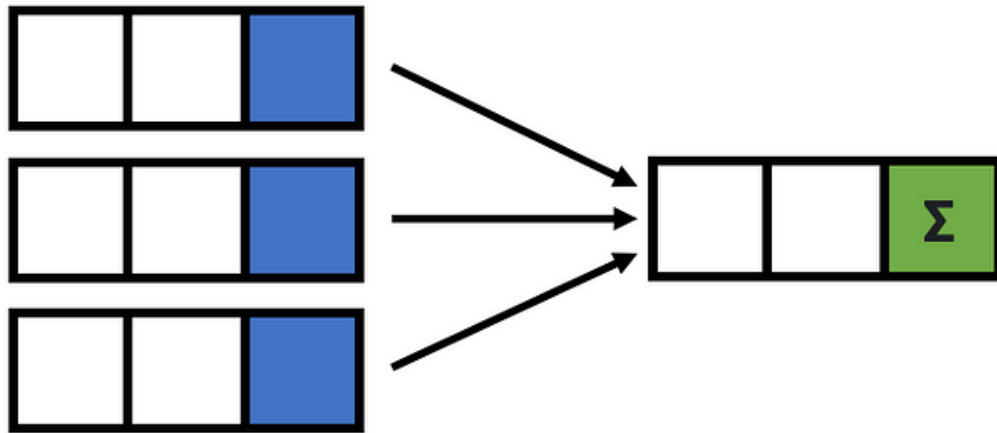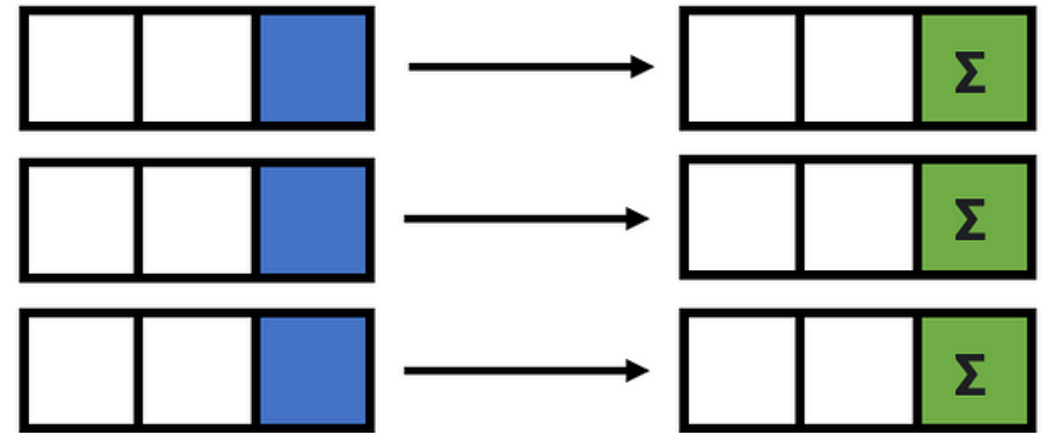# Day – 27 : Window Functions in SQL

Window functions

Window functions perform calculations across a set of table rows related to the current row. They are useful for ranking, calculating running totals, percentages, and much more.
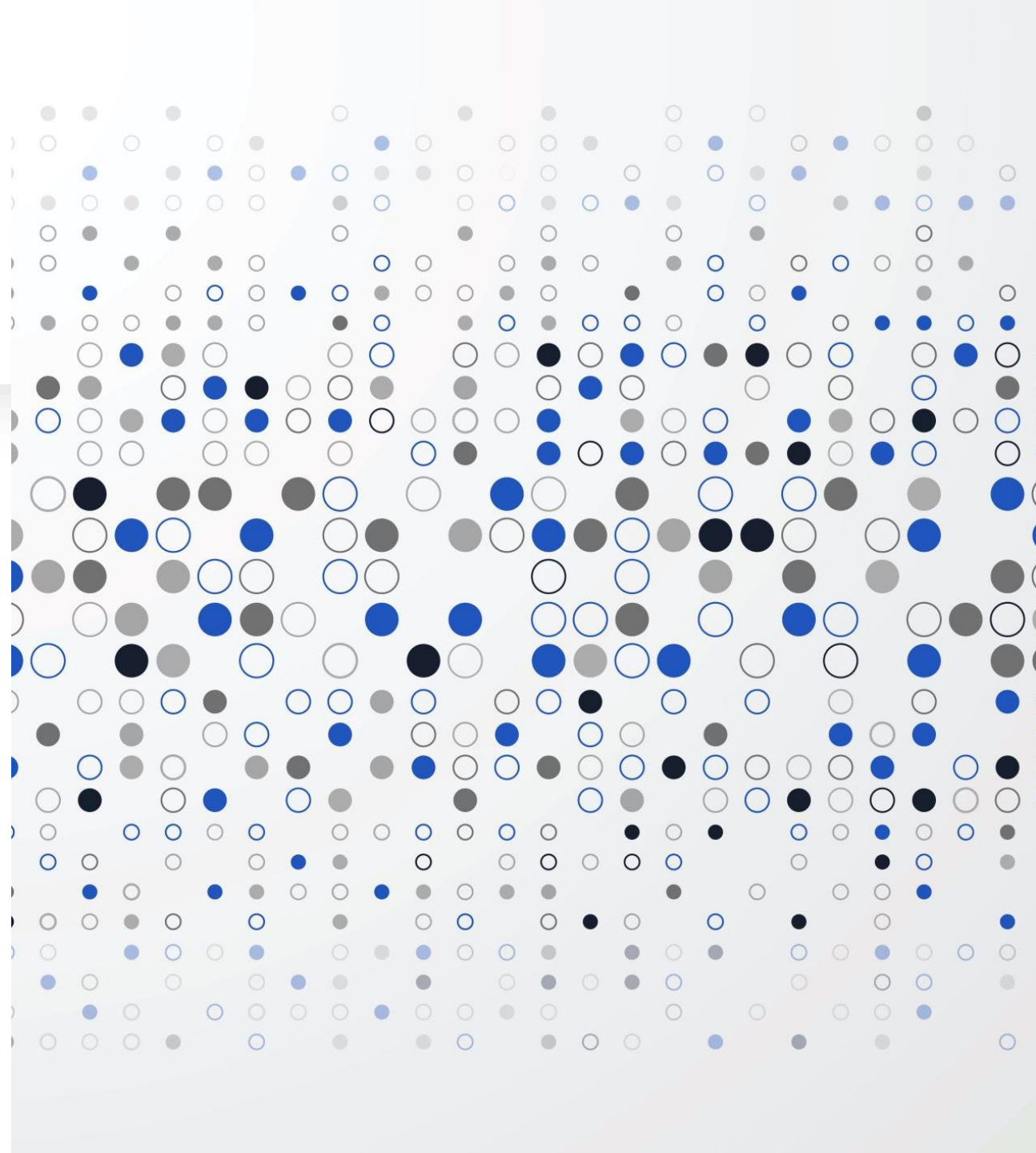
Assign a unique row number to each product within the same category.

SELECT

   product_name,

   category,

   price,

   ROW_NUMBER() OVER (PARTITION BY category ORDER BY price DESC) AS row_num

FROM products;

Calculate the running total of prices across all products.

```sql
SELECT
    product_name,
    price,
    SUM(price) OVER (ORDER BY price DESC) AS running_total
FROM products;
```

Ranking Window Function

```
SELECT
  product_name,
  category,
      price,
      DENSE_RANK() OVER
(PARTITION BY category ORDER BY price
DESC) AS Ranking
FROM products;
```