1. **What is a window function or analytic function?**

A window function or analytic function is a function that performs a calculation across a set of related rows. It’s similar to an aggregate function, but a window function does not group any rows together. The window function accesses multiple rows “behind the scenes”.

### What is the difference between RANK and DENSE\_RANK?

The difference between [RANK and DENSE\_RANK](https://www.databasestar.com/oracle-rank-dense-rank/) is where there is a tie or two records with the same value.

RANK will assign non-consecutive values, which means there will be gaps in numbers.

DENSE\_RANK will assign consecutive values, which means there will be no gaps.

### What’s the difference between ROWNUM and ROW\_NUMBER?

ROWNUM is a pseudo column and has no parameters, whereas ROW\_NUMBER is an analytical function that takes parameters.

ROWNUM is calculated on all results but before ORDER BY. ROW\_NUMBER is calculated as part of the column calculation

ROWNUM is unique. ROW\_NUMBER can contain duplicates.

Quiz on Window Functions

<https://www.windowfunctions.com/questions/intro/>

All Window Functions

<https://www.mysqltutorial.org/mysql-window-functions/>

1. What are Named Windows?

* Windows can be defined and given names by which to refer to them in OVER clauses.
* To do this, use a WINDOW clause.
* If present in a query, the WINDOW clause falls between the positions of the HAVING and ORDER BY clauses, and has this syntax:

**WINDOW *window\_name* AS (*window\_spec*) [, *window\_name* AS (*window\_spec*)] ...**

1. What is Pivoting Data?

Pivoting data is a technique that rotates data from a state of rows to a state of columns, possibly aggregating multiple source values into the same target row and column intersection.