

# RESGAD TECH ASSIGNMENT

- Write a query against the `dbo.Orders` table that returns a row for each employee, a column for each order year, and the count of orders for each employee and order year. Desired output:

| empid | cnt2020 | cnt2020 | cnt2020 |
|-------|---------|---------|---------|
| 1     | 1       | 1       | 1       |
| 2     | 1       | 2       | 1       |
| 3     | 2       | 0       | 2       |

- The following query attempts to filter orders that were not placed on the last day of the year. It's supposed to return the order ID, order date, customer ID, employee ID, and respective end-of-year date for each order:

```
SELECT orderid, orderdate, custid, empid,  
       DATEFROMPARTS(YEAR(orderdate), 12, 31) AS endofyear  
FROM Sales.Orders  
WHERE orderdate <> endofyear;; [1]  
}
```

When you try to run this query, you get an error.

Explain what the problem is, and suggest a valid solution.