This DAX code is used to analyze Virat Kohli's cricket performance data in Power BI by creating calculated columns and measures across three tables: **virat\_kohli\_source**, **Measure**, and **Calender**.

**1st Table: virat\_kohli\_source**

This table contains match data, including the number of runs scored. Several calculated columns are created to categorize his performance based on runs.

**100s Column (Detects century ranges)**

100s = VAR res =

SWITCH(TRUE(),

'virat\_kohli\_source'[RUNS] >= 100 && 'virat\_kohli\_source'[RUNS] < 200, 1,

'virat\_kohli\_source'[RUNS] >= 200 && 'virat\_kohli\_source'[RUNS] < 300, 2,

'virat\_kohli\_source'[RUNS] >= 300 && 'virat\_kohli\_source'[RUNS] < 400, 3,

0

)

RETURN res

* Categorizes centuries:
  + **1** → 100-199 runs
  + **2** → 200-299 runs
  + **3** → 300-399 runs
  + **0** → Below 100

**30s Column (Checks if runs exceed 30)**

30s = IF ('virat\_kohli\_source'[RUNS] > 30, 1, 0)

* Returns 1 if runs are **greater than 30**, else 0.

**50s Column (Detects half-century and higher groupings)**

50s = VAR res =

SWITCH(TRUE(),

'virat\_kohli\_source'[RUNS] >= 50 && 'virat\_kohli\_source'[RUNS] < 99, 1,

'virat\_kohli\_source'[RUNS] >= 150 && 'virat\_kohli\_source'[RUNS] < 199, 2,

'virat\_kohli\_source'[RUNS] >= 250 && 'virat\_kohli\_source'[RUNS] < 299, 3,

0

)

RETURN res

* Categorizes half-centuries:
  + **1** → 50-98 runs
  + **2** → 150-198 runs
  + **3** → 250-298 runs
  + **0** → Below 50 or 99-149 (not considered in any category)

**2nd Table: Measure**

This table is used to create **aggregated measures**.

**Summing up the 100s column**

100S = SUM(virat\_kohli\_source[100s])

* Sums up the **100s** column to get the **total number of centuries** across all matches.

**3rd Table: Calender**

This table helps generate a complete date range and extract date-based attributes.

**Date Range Creation**

Calender = CALENDAR(

DATE(YEAR(MIN(virat\_kohli\_source[date])), 1, 1),

DATE(YEAR(MAX(virat\_kohli\_source[date])), 12, 31)

)

* Creates a date table from **the start of the year of the first recorded match** to **the end of the year of the last recorded match**.

**Day Name**

day = FORMAT(Calender[Date], "ddd")

* Converts the date into a **3-letter day format** (e.g., "Mon", "Tue").

**Day Number**

day\_no = DAY(Calender[Date])

* Extracts the **day number** from the date.

**Month Name**

month = FORMAT(Calender[Date], "mmm")

* Converts the date into a **3-letter month format** (e.g., "Jan", "Feb").

**Month Number**

month\_no = MONTH(Calender[Date])

* Extracts the **month number** (1-12).

**First ODI Match Date**

ODI\_FIRST\_MATCH = CALCULATE(

MIN(virat\_kohli\_source[date]),

virat\_kohli\_source[match] = "ODI"

)

* Finds the **earliest recorded ODI match**.

**First T20 Match Date**

T20\_FIRST\_MATCH = CALCULATE(

MIN(virat\_kohli\_source[date]),

virat\_kohli\_source[match] = "T20"

)

* Finds the **earliest recorded T20 match**.

**Year Extraction**

year = YEAR(Calender[Date])

* Extracts the **year** from the date.

**Overall Summary**

1. **virat\_kohli\_source**
   * Classifies runs into 30s, 50s, and 100s.
   * Uses SWITCH and IF functions to categorize innings.
2. **Measure**
   * Aggregates total centuries using SUM().
3. **Calender**
   * Creates a **date range** and extracts **day, month, and year**.
   * Identifies the **first ODI and T20 matches**.