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# Dax functions that I have applied in This Project:
# 01:
Calendar = ADDCOLUMNS(
  CALENDAR(MIN('craditcard card_data'[Date]), MAX('craditcard card_data'[Date])),
  "Year", YEAR([Date]),
  "Month", FORMAT([Date], "MMM"),
  "MonthNum", MONTH([Date]),
  "Day", DAY([Date]),
  "Weekday", FORMAT([Date], "ddd"),
  "WeekOfMonth",
    INT((DAY([Date]) - 1) / 7) + 1, -- Integer week number within the month
  "Week", WEEKNUM([Date], 1), -- Assuming you want to keep the original week number within the
year
  "Qtr", "Q" & QUARTER([Date])
)
# 02:
Age_group = SWITCH(
  TRUE(),
  'craditcard customer data'[customer age] < 30, "20-30",
  'craditcard customer_data'[customer_age]>= 30 && 'craditcard customer_data'[customer_age]<
40,"30-40",
  'craditcard customer data'[customer age] >= 40 && 'craditcard customer data'[customer age] <50,
"40_50",
  'craditcard customer_data'[customer_age] >= 50 &&'craditcard customer_data'[customer_age]<60,
"50-60",
  'craditcard customer_data'[customer_age]>=60, "60+",
  "Unknown"
  )
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# 03:
Income_Group = SWITCH(
  TRUE(),
  'craditcard customer_data'[income] >= 50000 && 'craditcard customer_data'[income] <= 80000, "High
income",
  'craditcard customer_data'[income] >= 25000 && 'craditcard customer_data'[income] < 50000,
"Medium income",
  'craditcard customer_data'[income] < 25000, "Low income",
  "Unknown"
)
# 04:
% = DIVIDE(([Current_Week]-[previous_week_]),[previous_week_])
05:
% Current_week vs Previous_week =
DIVIDE([Current_Week], [previous_week_], 0)
# 06:
Current_Week = CALCULATE(
  SUM('craditcard card_data'[Revenue]),
  FILTER(
    ALL('Calendar'),
    'Calendar'[Week] = MAX('Calendar'[Week])
# 07:
previous_week_ = CALCULATE(
  SUM('craditcard card_data'[Revenue]),
  FILTER(
    ALL('Calendar'),
    'Calendar'[Week] = MAX('Calendar'[Week]) - 1
 )
)
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# 08:
Filters =
VAR marital_status_top = RANKX(ALL('craditcard customer_data'[marital_status]), [Total_Revenue])
VAR marital_status_bottom = RANKX(ALL('craditcard customer_data'[marital_status]), [Total_Revenue], ,
ASC)
VAR customer job top = RANKX(ALL('craditcard customer data'[customer job]), [Total Revenue])
VAR customer job bottom = RANKX(ALL('craditcard customer data'[customer job]), [Total Revenue], ,
ASC)
VAR state_top = RANKX(ALL('craditcard customer_data'[state_cd]), [Total_Revenue])
VAR state_bottom = RANKX(ALL('craditcard customer_data'[state_cd]), [Total_Revenue], , ASC)
VAR income_group_top = RANKX(ALL('craditcard customer_data'[Income_Group]), [Total_Revenue])
VAR income group bottom = RANKX(ALL'craditcard customer data'[Income Group]), [Total Revenue],
, ASC)
VAR education top = RANKX(ALL('craditcard customer data'[education level]), [Total Revenue])
VAR education_bottom = RANKX(ALL('craditcard customer_data'[education_level]), [Total_Revenue], ,
ASC)
VAR _CheckRank =
 IF(
    CONTAINSSTRING(SELECTEDVALUE(Selectedfield[Selectedfield Fields]), "marital status"),
    IF(SELECTEDVALUE('Select'[Select]) = "Top", marital status top, marital status bottom),
    IF(
      CONTAINSSTRING(SELECTEDVALUE(Selectedfield[Selectedfield Fields]), "customer job"),
      IF(SELECTEDVALUE('Select'[Select]) = "Top", customer job top, customer job bottom),
      IF(
        CONTAINSSTRING(SELECTEDVALUE(SelectField[SelectField Fields]), "state"),
        IF(SELECTEDVALUE('Select'[Select]) = "Top", state_top, state_bottom),
          IF(
            CONTAINSSTRING(SELECTEDVALUE(Selectedfield[Selectedfield Fields]), "income_group"),
            IF(SELECTEDVALUE('Select'[Select]) = "Top", income group top, income group bottom),
            IF(
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CONTAINSSTRING(SELECTEDVALUE(Selectedfield[Selectedfield Fields]), "education"),
               IF(SELECTEDVALUE('Select'[Select]) = "Top", education_top, education_bottom),
               BLANK() // Default case
            )
          )
      )
  )
RETURN
IF(
  _CheckRank <= 'Choose Rank'[Choose Rank Value],
  [Total_Revenue], // Return Total Revenue if within the rank
  BLANK() // Hide row if not within rank
)
#9:
total interst_earn = SUM('craditcard card_data'[interest_earned])
# 10:
total transaction = SUM('craditcard card_data'[total_trans_amt])
# 11:
Total_Revenue = SUM('craditcard card_data'[Revenue])
# 12:
Weekly Revenue =
FORMAT([Current_Week] - [previous_week_], "$#,##0;-$#,##0")
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# 13:
Ranking = VAR _top_expend = RANKX(ALL('craditcard card_data'[expenditure_type]), [Total_Revenue])
// Defaults to descending order
VAR _bottom_expend = RANKX(ALL('craditcard card_data'[expenditure_type]), [Total_Revenue], , ASC)
VAR top customer job = RANKX(ALL('craditcard customer data'[customer job]), [Total Revenue]) //
Defaults to descending order
VAR _bottom_customer_job = RANKX(ALL('craditcard customer_data'[customer_job]), [Total_Revenue], ,
ASC)
VAR _top_Education = RANKX(ALL('craditcard customer_data'[education_level]), [Total_Revenue]) //
Defaults to descending order
VAR _bottom_Education = RANKX(ALL('craditcard customer_data'[education_level]), [Total_Revenue], ,
ASC)
VAR _CheckRank =
 IF(
    CONTAINSSTRING(SELECTEDVALUE(SelectField[SelectField Fields]), "expenditure_type"),
    IF(SELECTEDVALUE('Select'[Select]) = "Top", _top_expend , _bottom_expend),
    IF(
      CONTAINSSTRING(SELECTEDVALUE(SelectField[SelectField Fields]), "customer_job"),
      IF(SELECTEDVALUE('Select'[Select]) = "Top", _top_customer_job, _bottom_customer_job),
      IF(SELECTEDVALUE('Select'[Select]) = "Top", _top_Education, _bottom_Education)
   )
RETURN
IF(
  CheckRank <= 'Choose Rank'[Choose Rank Value], [Total Revenue], // Return Total revenue if within
rank
  BLANK() // Hide row if not within rank
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)

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# 14:
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Selectedfield = {
    ("customer_job", NAMEOF('craditcard customer_data'[customer_job]), 0),
    ("dependent_count", NAMEOF('craditcard customer_data'[dependent_count]), 1),
    ("education_level", NAMEOF('craditcard customer_data'[education_level]), 2),
    ("Income_Group", NAMEOF('craditcard customer_data'[Income_Group]), 3),
    ("marital_status", NAMEOF('craditcard customer_data'[marital_status]), 4)
}
# 15:
SelectField = {
    ("exp_type", NAMEOF('craditcard card_data'[expenditure_type]), 0),
    ("customer_job", NAMEOF('craditcard customer_data'[customer_job]), 1),
    ("education_level", NAMEOF('craditcard customer_data'[education_level]), 2)
}
```