Dear Applicant,

Here is a list of assessments you are required to complete as a part of the interview process. You will be equally assessed on the approach in achieving the results, apart from the end results.

Total Assessments: 4
Deadline: 5 days from the date of receipt of assessment
Targeted Skills: Power BI - Power Query, ETL, DAX, data analysis and visualization

Assessment 1

File to refer: *Count of ID Updates.xlsb*

Show the instance of change and the total number of times the IDs have changed from Current ID to Old ID. The tracking should be from the initial ID to the latest ID.

Here is an example of the desired output:

Current ID	Old ID	Change	Description
6716634		0	Initial ID
6716809	6716634	1	1st Change
6720667	6716809	2	2nd Change
6720776	6720667	3	3rd Change
6721291	6720776	4	4th Change

Final Result	
Initial ID	**Number of changes**
6716634	4
Only IDs that have empty Old ID are first instance and those should have final score in this case 4	

Assessment 2

File to refer: *Employee Status.xlsb*

Show the 'Active/Inactive' status of the employee for any selected period (using the date slicer). Active status should be shown in Green background and the Inactive status to be shown in Grey background.

Here is an example of the desired output:

EmpCode	DateStart	DateEnd	_Active/Inactive
A010058	07-06-2018	23-09-2018	Active
A010060	21-03-2016	31-03-2018	Active
A010061	08-05-2023		Inactive
A010062	22-07-2017	20-11-2017	Active
A010063	24-04-2019	23-01-2020	Active
A010064	02-05-2022	30-11-2022	Inactive
A010065	18-04-2019	07-01-2020	Active
A010066	13-05-2019	31-12-2019	Active
A010067	13-05-2019	31-12-2019	Active
A010069	04-09-2019	12-10-2019	Active
A010070	27-07-2020	14-09-2020	Inactive
A010080	28-06-2022	14-11-2022	Inactive
A010090	12-07-2022	04-08-2022	Inactive
A010091	12-07-2022	04-08-2022	Inactive
A014015	04-05-2017	02-11-2017	Active
A014016	01-01-2020	21-03-2022	Active
A014017	16-08-2017	13-09-2017	Active
A014018	11-09-2017	17-11-2017	Active

Assessment 3

File to refer: *Tenant Score.xlsb*

Using Power Query, please transform the tenant score table into a monthly snapshot fact table. For each month, only the score of the maximum date is of interest. If there is no data for a given month, the last value is valid. If needed, please create a date dimension using DAX. If there are two scores for the same tenant and day, please take the higher score.

Here is an example of the desired output:

Tenant_ID	Months	Highest Score
11363	Feb-20	0.4648473000
11363	Mar-20	0.6460014020
11363	Apr-20	0.0788377927
11363	May-20	0.0788377927
11363	Jun-20	0.0788377927
11363	Jul-20	0.0788377927
11363	Aug-20	0.0788377927
11363	Sep-20	0.0788377927
11363	Oct-20	0.0788377927
11363	Nov-20	0.0788377927
11363	Dec-20	0.0788377927
11363	Jan-21	0.0788377927
11363	Feb-21	0.0788377927
11363	Mar-21	0.0788377927
11363	Apr-21	0.0788377927
11363	May-21	0.0788377927
11363	Jun-21	0.0788377927
11363	Jul-21	0.0788377927
11363	Aug-21	0.0788377927
11363	Sep-21	0.0788377927
11363	Oct-21	0.0788377927
11363	Nov-21	0.0788377927
11363	Dec-21	0.0788377927
11363	Jan-22	0.0788377927
11363	Feb-22	0.0788377927
11363	Mar-22	0.0788377927
11363	Apr-22	0.0788377927
11363	May-22	0.9967505820

Assessment 4

File to refer: *New Dispatch Log.csv*

You are required to show the number of orders processed (both Arrival and Depart) at every 15 minutes interval (0-15, 16-30, 31-45, 46-60 minutes) all hours throughout the day. The report should have the option of viewing the numbers separately for Arrival and Depart using the slicer.