

A REPORT BY OKEREKE ADAEZE OGHOGHO ANITA

REPORT ON GAMES PLAYED IN A CASINO (POWER BI)

This analysis was done using power bi, to gain insights into the data. The dataset was obtained from a casino in Abuja.

DATA DESCRIPTION

This dataset contains 4 different games namely; 6wey49, Jacky, Sweet3 and Win and scratch.

All the games were appended as new. The dataset contains 259,500 rows. This was the overview of the dataset after appending;

The screenshot displays the Microsoft Power BI Desktop interface. The main window shows a data table with the following columns: NUMBER, timestamp, operator, price, status, prize, and drawId. The table contains 19 rows of data. The interface includes a ribbon with tabs: Home, Transform, Add Column, View, Tools, and Help. The bottom status bar indicates 13 columns and 999 rows, with column profiling based on the top 1000 rows. The right sidebar shows the 'Query Settings' for the 'Customers' query, including 'PROPERTIES' and 'APPLIED STEPS'.

	123 NUMBER	@timestamp	ABC 123 operator	123 price	ABC 123 status	123 prize
	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%
1	23481655292	7/31/2023 7:07:51 PM	1	100	0	
2	23470627530	7/31/2023 8:22:37 PM	1	100	0	
3	23470630911	7/31/2023 10:05:10 PM	1	100	0	
4	23481419906	7/31/2023 8:09:07 PM	1	100	0	
5	23470464258	7/31/2023 9:12:55 PM	1	100	0	
6	23470346494	7/31/2023 5:56:42 PM	1	100	0	
7	23490668670	7/31/2023 3:58:15 PM	1	100	0	
8	23470643766	7/31/2023 4:13:37 PM	1	100	0	
9	23470444213	7/31/2023 5:23:58 PM	1	100	0	
10	23480330694	7/31/2023 5:12:13 PM	1	100	0	
11	23490668670	7/31/2023 3:53:27 PM	1	100	0	
12	23490668670	7/31/2023 3:56:17 PM	1	100	0	
13	23481400078	8/1/2023 12:09:14 AM	1	100	0	
14	23481400078	7/31/2023 10:46:55 PM	1	100	0	
15	23481656144	7/31/2023 10:03:30 PM	1	100	0	
16	23481419906	7/31/2023 8:07:22 PM	1	100	0	
17	23481497238	7/31/2023 3:04:43 PM	1	100	0	
18	23481683609	7/31/2023 5:25:25 PM	1	200	0	
19	23490668670	7/31/2023 3:53:27 PM	1	100	0	

The screenshot displays the Power Query Editor window. The main area shows a table with the following columns: **prize**, **drawid**, **accessChannel**, **gamelid**, **picked_numbers**, and **serial_number**. Each column has a data type and a validity status (Valid, Error, Empty) shown in a small table above the column header. The **prize** column is of type **Whole Number** and is 100% valid. The **drawid** column is of type **Whole Number** and is 100% valid. The **accessChannel** column is of type **Text** and is 100% valid. The **gamelid** column is of type **Whole Number** and is 100% valid. The **picked_numbers** column is of type **Whole Number** and is 0% valid, 0% error, and 100% empty. The **serial_number** column is of type **Whole Number** and is 0% valid, 0% error, and 100% empty. The table contains 19 rows of data. The bottom status bar indicates 13 columns and 999+ rows. The right sidebar shows the **PROPERTIES** and **APPLIED STEPS** panels.

DATA CLEANING

- The dataset of all games were loaded in the power query editor.
- The dataset of the 4 games were appended as new. The “number” column was chosen and the other columns removed. Duplicates were not removed to avoid losing large amount of data. The query was renamed as CUSTOMERS.
- To get the name of day and the time, the “TIMESTAMP” column was chosen in addition to the “NUMBERS” column in the query.

- The timestamp column was duplicated to avoid altering the original data. The duplicated column was split by delimiter into date and time. Both columns were renamed accordingly and their datatypes changed.
- The date column was transformed to show just day of week and the time column was transformed to show hour of day.
- The columns “price”, “prize”, “picked numbers”, “status”, “operator” were also added in the CUSTOMERS query.

After cleaning, this was the outcome:

HomeTransformAdd ColumnViewToolsHelp

Close & ApplyClose

New SourceNew Query

Recent Sources

Enter Data

Data source settingsData Sources

Manage ParametersParameters

Refresh PreviewQuery

PropertiesAdvanced EditorManage

Choose ColumnsManage Columns

Remove Columns

Keep RowsReduce Rows

Remove Rows

Sort

Split ColumnGroup ByTransform

Use First Row as HeadersReplace Values

Data Type: Whole Number

MergeAppendCombine

Queries [5]

6wey49

Jacky

sweet 3

win and scratch

Customers

Table.SelectColumns(Source,{"NUMBER","operator","price","status","prize","Day of week","Time"}

	NUMBER	operator	price	status	prize	Day of week
	Valid 100%	Valid 100%	Valid 100%	Valid 100%	Valid 100%	Valid 100%
	Error 0%	Error 0%	Error 0%	Error 0%	Error 0%	Error 0%
	Empty 0%	Empty 0%	Empty 0%	Empty 0%	Empty 0%	Empty 0%
1	23481655292	1	100	0	Monday	
2	23470627530	1	100	0	Monday	
3	23470630911	1	100	0	Monday	
4	23481419906	1	100	0	Monday	
5	2347064258	1	100	0	Monday	
6	23470346494	1	100	0	Monday	
7	23490668670	1	100	0	Monday	
8	23470643766	1	100	0	Monday	
9	2347044213	1	100	0	Monday	
10	23480330694	1	100	0	Monday	
11	23490668670	1	100	0	Monday	
12	23490668670	1	100	0	Monday	
13	23481400078	1	100	0	Tuesday	
14	23481400078	1	100	0	Monday	
15	23481656144	1	100	0	Monday	
16	23481419906	1	100	0	Monday	
17	23481497238	1	100	0	Monday	
18	23481683609	1	200	0	Monday	
19	2347064258	1	100	0	Monday	

Query Settings

Properties

NameCustomers

All Properties

Applied Steps

Source

Removed OL

8 COLUMNS, 999+ ROWS

Column profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 4:25 PM

Queries [5]

- 6wey49
- Jacky
- sweet 3
- win and scratch
- Customers

fx = Table.SelectColumns(Source,{"NUMBER", "operator", "price", "status", "prize", "Day of week", "Time", "picked_numbers" })

	status	prize	Day of week	Time	picked_numbers
1	100%	100%	0	Monday	19
2	100%	100%	0	Monday	20
3	100%	100%	0	Monday	22
4	100%	100%	0	Monday	20
5	100%	100%	0	Monday	21
6	100%	100%	0	Monday	17
7	100%	100%	0	Monday	15
8	100%	100%	0	Monday	16
9	100%	100%	0	Monday	17
10	100%	100%	0	Monday	17
11	100%	100%	0	Monday	15
12	100%	100%	0	Monday	15
13	100%	100%	0	Tuesday	0
14	100%	100%	0	Monday	22
15	100%	100%	0	Monday	22
16	100%	100%	0	Monday	20
17	100%	100%	0	Monday	15
18	100%	100%	0	Monday	17
19	100%	100%	0	Monday	17

8 COLUMNS, 999+ ROWS Column profiling based on top 1000 rows

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Query Settings

PROPERTIES

Name

Customers

APPLIED STEPS

Source

Removed Ol...

INSIGHTS

From the analysis, these are some of the insights gotten.

- The analysis of the games played at the casino shows a total of 259,500 players.
- A total of 29,180 people played the 6wey49 game. 47,890 people played the Jacky game. 129,890 people played the Sweet 3 game and 52,550 people played the win and scratch game
- The analysis shows that games were mostly played on Fridays by 9pm. This could be because Friday is the last working day in a week and the start of

the weekend. People have enough time to go home, cool off and go play games at night

- The frequently won price was “100” which means most players played with “100”.
- The analysis shows that the percentage of people who lost their games were greater than those who won. About 73% of people played games and lost while just 26.88% played games and won.
- The sweet 3 game is usually played with numbers and from the analysis, the most picked number was 956 which was picked 721,780 times.

A dashboard was created in power BI to visualize the analysis done;



