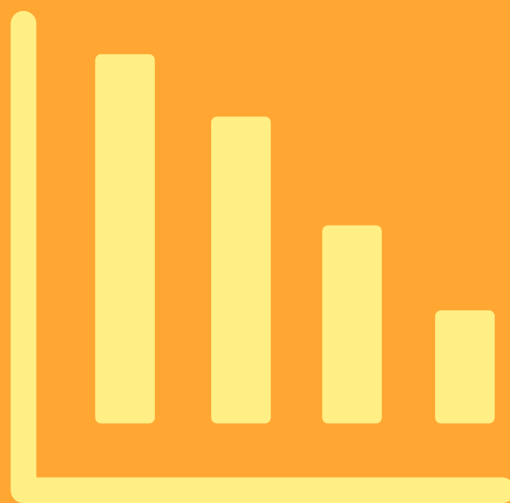


Data Analyst

PORT FOLIO



Adam Jones

Skills & Expertise

- Data Cleaning and Preparation
- Statistical Analysis
- Data Visualization
- SQL and Database Management
- Python Data Analysis
- Business Intelligence Tools (Power BI)

<https://github.com/adamjones43m/Data-Analysis-Projects>

Business Data Project – Data Preparation & Visualization

- Performed comprehensive data cleaning using SQL and Excel, including handling missing values, correcting data types, and removing duplicates to ensure dataset integrity.
- Standardised categorical variables and normalised numerical fields to improve consistency and analytical accuracy.
- Conducted exploratory data analysis (EDA) to identify trends, outliers, and correlations, laying the groundwork for meaningful visualizations.
- Created calculated columns and measures to enrich the dataset and support advanced insights in Power BI.
- Established a dynamic link between the cleaned dataset and Power BI, enabling real-time updates and seamless dashboard refreshes.
- Designed intuitive Power BI dashboards that highlighted key business metrics, trends, and performance indicators for stakeholders.

Data preparation in MySQL

```
29 emp2.first_name AS first_name_emp,
30 emp2.last_name AS last_name_emp
31 FROM employee_salary AS emp1
32 JOIN employee_salary AS emp2
33     ON emp1.employee_id + 1 = emp2.employee_id
34 ;
35
36 -- Joining Multiple tables
37
38 • SELECT *
39 FROM employee_demographics AS dem
40 INNER JOIN employee_salary AS sal
41     ON dem.employee_id = sal.employee_id
42 INNER JOIN parks_departments AS pd
43     ON sal.dept_id = pd.department_id
44 ;
45
46 • SELECT *
47 FROM parks_departments
48 ;
```

employee_id	first_name	last_name	age	gender	birth_date	employee_id	first_name	last_name	occupation	salary	dept_id	department_id	department_name
1	Leslie	Knope	44	Female	1979-09-25	1	Leslie	Knope	Deputy Director of Parks and Recreation	75000	1	1	Parks and Recreation
3	Tom	Haverford	36	Male	1987-03-04	3	Tom	Haverford	Entrepreneur	50000	1	1	Parks and Recreation
4	April	Ludgate	29	Female	1994-03-27	4	April	Ludgate	Assistant to the Director of Parks and Recreation	25000	1	1	Parks and Recreation
5	Jerry	Gergich	61	Male	1962-08-28	5	Jerry	Gergich	Office Manager	50000	1	1	Parks and Recreation
6	Donna	Meagle	46	Female	1977-07-30	6	Donna	Meagle	Office Manager	60000	1	1	Parks and Recreation
7	Ann	Perkins	35	Female	1988-12-01	7	Ann	Perkins	Nurse	55000	4	4	Healthcare
8	Chris	Traeger	43	Male	1980-11-11	8	Chris	Traeger	City Manager	90000	3	3	Public Works
9	Ben	Wyatt	38	Male	1985-07-26	9	Ben	Wyatt	State Auditor	70000	6	6	Finance
11	Mark	Brendanawicz	40	Male	1983-06-14	11	Mark	Brendanawicz	City Planner	57000	3	3	Public Works
12	Craig	Middlebrooks	37	Male	1986-07-27	12	Craig	Middlebrooks	Parks Director	65000	1	1	Parks and Recreation

Data Visualisation - PowerBI

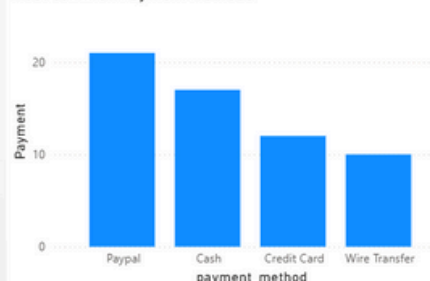
- Payment analysis
 - Most common payment types
 - Late payments
 - Late payment by payment types

Payments & Financials

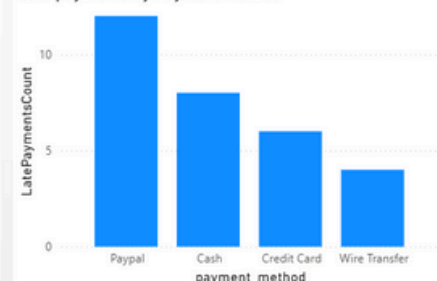
Late Paying Customers (3 > Days)

customer_id	Payment > 3 Days	Late Pay count
2	True	1
6	True	3
7	True	1
8	True	1
9	True	1
10	True	1
11	True	1
14	True	1
15	True	2
18	True	1
20	True	1
21	True	1
22	True	2
23	True	1
25	True	1
26	True	1
28	True	1
29	True	1
31	True	1
32	True	1
37	True	1
38	True	1
44	True	1
46	True	1
47	True	1
48	True	1

Most common Payment Methods



Late payments by Payment Method



Payments Fulfilled



- # Employee Performance

Month Name
All

Year
All

Orders Processed by Each Employee

Employee	Orders processed
Alice	3
Ava	1
Bob	7
Carol	5
David	4
Emily	3
George	5
Isabella	3
Liam	6
Mason	14
Michael	8
Michelle	1

Average Order Value Per Employee

Employee	Average of total_amount
Alice	3,831.99
Ava	2,894.16
Bob	1,768.85
Carol	1,642.32
David	3,304.66
Emily	3,371.17
George	3,161.81
Isabella	2,376.31
Liam	2,677.11
Mason	2,691.89
Michael	2,424.81
Michelle	59.26

Top 5 most productive employees

Employee	Orders Processed
Mason	14
Liam	6
George	5
Carol	5
Michael	8

Least 5 productive employees

Employee	Orders Processed
Alice	3
Emily	3
Isabella	3
Michael	8
Bob	7

Monthly Sales Per Employee

first_name	January	February	March	April	May	June	July	August	September	October	November	December
Alice				3				2				
Ava										3		
Bob		3			2	2				2	1	3
Carol	2				2	3	5					
David	3		3							1	3	
Emily	3	3					1					
George			5	3				2		1		
Isabella					3				3			1
Liam					2	2				1	3	3

- [illegible]

Further Dashboards - PowerBI

- Please visit GitHub Link for full projects

HR Data - Employee demographics



Job Market Data

