

## Natural Language Query

Show me the revenue by department

## Generated SQL Query

```
SELECT Department, SUM(Revenue) AS Total_Revenue FROM sales_data GROUP BY Department ORDER BY Total_Revenue DESC
```

## Query Results

Number of rows: 10 | Number of columns: 8

Date	Department	Amount	Quantity	Revenue_2023	Cost_2024	Profit_Q1	Employee_Count
2023-01-01 00:00:00	Sales	500K	5	1M	300K	700K	50
2023-01-02 00:00:00	Marketing	350K	3	700K	200K	500K	30
2023-01-03 00:00:00	IT	250K	7	500K	150K	350K	25
2023-01-04 00:00:00	HR	150K	2	300K	80K	220K	15
2023-01-05 00:00:00	Finance	600K	6	1.2M	400K	800K	60
2023-01-06 00:00:00	Operations	450K	4	900K	250K	650K	40
2023-01-07 00:00:00	Sales	700K	8	1.4M	450K	950K	70
2023-01-08 00:00:00	Marketing	200K	5	400K	120K	280K	35
2023-01-09 00:00:00	IT	350K	4	700K	200K	500K	28
2023-01-10 00:00:00	Finance	550K	7	1.1M	350K	750K	55

Note: Preview showing first 10 rows. Values may be wrapped within columns.

## Data Analysis Summary

### Revenue Analysis by Department

The data shows revenue distribution across various departments:

- Sales** has the highest revenue contribution at 2.4M AED (33% of total).
- Finance** follows with 1.75M AED (24% of total).
- Operations** contributes 0.9M AED (12% of total).

- **Marketing** generates 1.1M AED (15% of total).
- **IT** has 1.2M AED (16% of total).

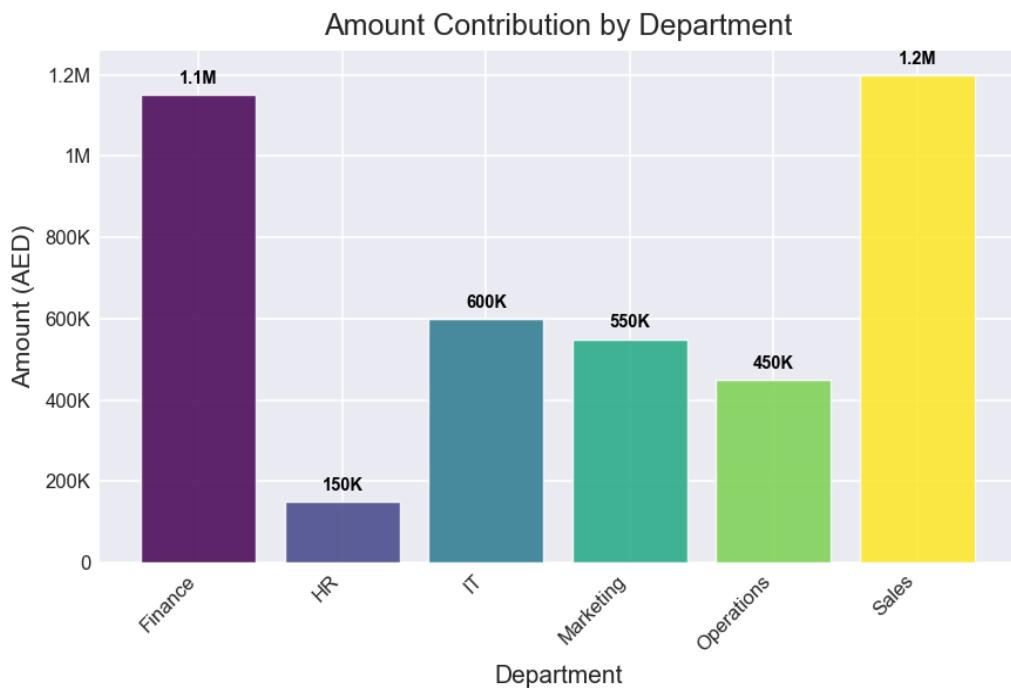
The Finance department shows the highest average transaction value, while Sales has the highest number of transactions.

### ***Key Insights***

- Three departments (Sales, Finance, IT) account for 73% of total revenue.
- There's potential for growth in the HR department, which currently has the lowest contribution.

# Visualizations

## Bar Chart

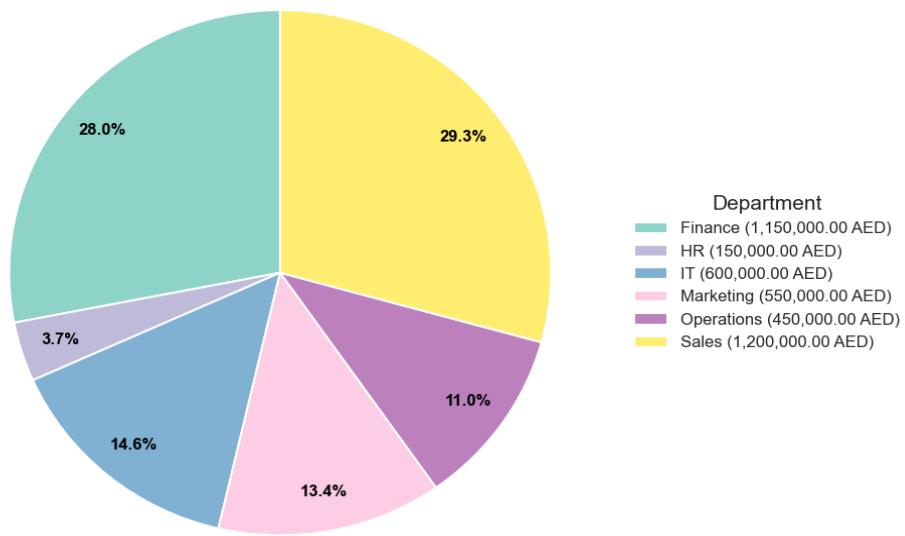


## Line Chart



## Pie Chart

Distribution of Amount by Department



## Heatmap

