#### **Dataset Overview**

**Purpose of the Dataset:** This dataset provides insights into how leads interact with the courses, including their origins, preferences, and payment behaviours. This will help identify trends, optimize lead generation, and improve course offerings.

**Missing Values:** The amount\_paid and paid\_at columns have missing values. These missing values probably indicate leads who viewed the courses but did not buy.

Total Record: The dataset consists of 16,460 records.

# **Top 5 Insights from the Dataset**

1. Channel Group Distribution: Identify the number of leads generated per channel group.

#### **SQL Query:**

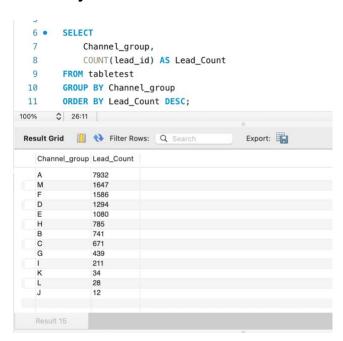


Fig: Screenshot from MySQL Workbench (query and output)

# **Graph Representation:**

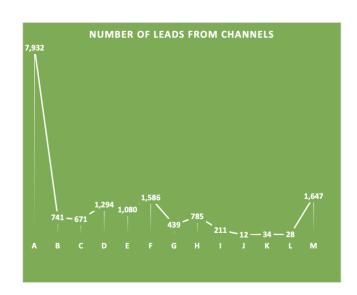


Fig: Line graph representation of channel\_group(x-axis) vs lead\_id(y-axis)

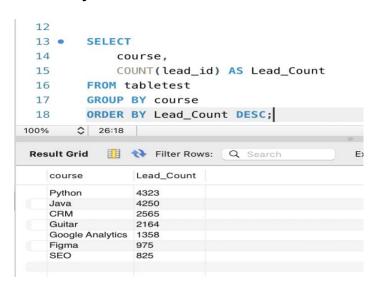
**Analysis:** Most leads originate from channel *group A, 7932* leads, then *M, 1647* leads, and *F, 1586* leads. J and L have fewer leads, so these channels could be underperforming.

#### **Assumptions:**

- Channels M (1,647 leads) and F (1,586 leads) perform moderately compared to A. The channels may be optimized or have more investment in them to achieve better performance.
- Channels J and L have significantly fewer leads. These channels seem to be underperforming. These channels might Require revised strategies to increase effectiveness.

# 2. Most Popular Courses: Finding the most popular courses based on the number of leads.

# **SQL Query:**



# **Graph Representation:**

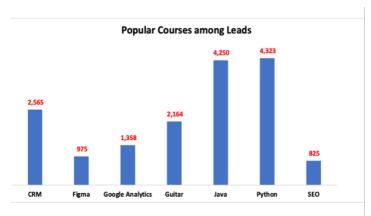


Fig: Bar graph representation course (x-axis) vs lead id(y-axis)

Fig: Screenshot from MySQL Workbench (query and output)

**Analysis:** There is a huge preference for the *Python course with 4,323 leads*, closely followed by the *Java course at 4,250 leads*. The *CRM and Guitar* courses follow suit with *leads above 2,000 leads*, while leads *in SEO and Figma courses are fewer in number.* 

# **Assumptions:**

- The Python course is probably the most in-demand because it applies to the most in-demand fields, including data science, machine learning, and software development.
- These might indicate the presence of some potential in the market for SEO and Figma skills if such skills are demanded but under-marketed. Conversely, these courses could be needed in terms of their content or structure to generate more leads.

# 3. Lead Type Distribution: Analyze lead types and their payment details.

### **SQL Query:**

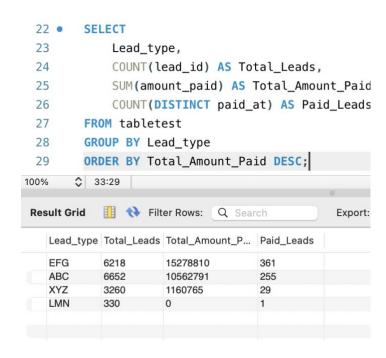


Fig: Screenshot from MySQL Workbench (query and output)

### **Graph Representation:**

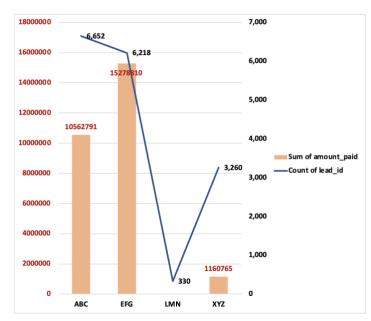


Fig: Combo chart representation lead\_type (x-axis) vs lead id and amount paid(y-axis)

# **Analysis:**

- Lead type ABC constitutes the largest share (6,652 leads), followed by EFG (6,218 leads). XYZ leads are fewer (3,260), and LMN is minimal with only 330 leads.
- While ABC has the highest total leads (6,652), its paid leads are fewer than EFG, which has fewer total leads but higher paid conversions. This suggests EFG is more efficient at converting leads into paying customers.
- XYZ and LMN have significantly lower total leads and paid leads, indicating these lead types are either less targeted or less effective in generating paying customers.

# **Assumptions:**

- EFG is the best lead type in producing revenue, as though EFG had fewer leads than ABC, this shows that its campaigns or strategies are more conversion-oriented.
- ABC may have many leads but conversion of leads into a paid customer basis may not be so great.
- LMN doesn't seem effective in revenue generation, which would either indicate these leads are not targeted for paid conversions or the lead type simply reflects a non-paying audience.
- XYZ and LMN may need focused efforts to increase conversion rates or be reassessed if their poor performance continues.

4. Lead Generation Trends: Count the number of leads generated in each month.

# **SQL Query:**

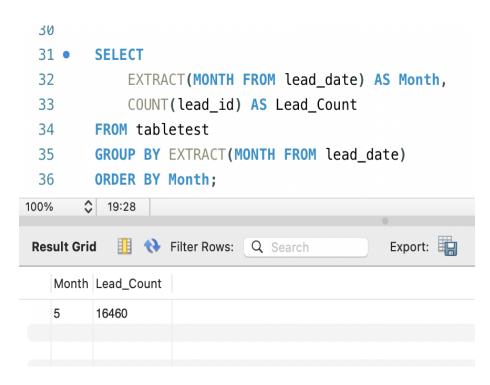


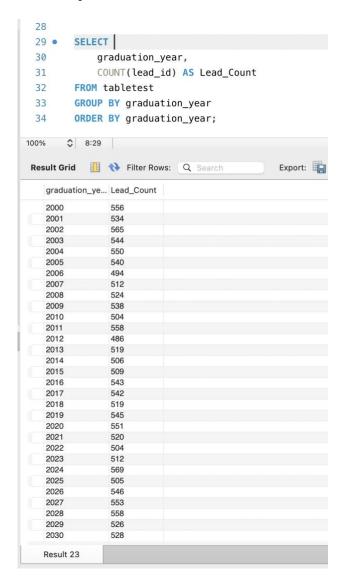
Fig: Screenshot from MySQL Workbench (query and output

**Analysis:** All leads were generated in May, indicating this may be a snapshot of monthly data or a seasonal pattern that requires further investigation.

**Assumptions:** May could be a peak month for lead generation, driven by marketing campaigns, course launches, or seasonal demand.

# 5. Graduation Year Distribution: Distribution of leads by graduation year.

### **SQL Query:**



Fig(left): Screenshot from MySQL Workbench (query and output)

**Analysis:** The dataset covers leads who graduated between 2000 and 2030. The most leads are found in *the years 2024 (569 leads) and 2028 (558 leads)*, indicating that there is a greater interest from people who are closer to graduating.

### **Assumptions:**

- This could be because leads who are either soon graduating or graduated with a degree are more interested in pursuing the courses offered. It could also be because of career preparation, an upgrade of skill, and professional development needs.
- Targeted Marketing will be done, focusing on the graduating class, 2024 and 2028, using tailored campaigns for career-related benefits.

#### **Graph Representation:**

#### Number of Leads According to Graduation Year



2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030

Fig: Line graph representation of graduation-year (x-axis) vs lead\_id(y-axis)