MySQL Challenge 1 Queries

This document presents a structured set of MySQL queries designed to explore and analyze the Magist business database. The questions are organized into four main categories – Database Overview, Product Analysis, Seller Analysis, and Delivery Performance – each aimed at uncovering key insights about sales, user behavior, and operational performance.

1. Database Overview
   1.1. How many orders are there in the dataset?
   1.2. Are the orders actually delivered?
   1.3. Is Magist experiencing user growth?
   1.4. How many products are there in the products table?
   1.5. Which are the categories with most products?
   1.6. How many of products were present in actual transactions?
   1.7. What's the price for the most expensive and cheapest products?
   1.8. What are the highest and lowest payment values?

2. Products Analysis
   2.1. What categories of tech products does Magist have?
   2.2. How many products of these tech categories have been sold (within the time window of the database snapshot)?
   2.3. What percentage do tech categories represent from the overall number of products sold?
   2.4. What's the average price of the products being sold?
   2.5. Are expensive tech products popular?

3. Seller Analysis
   3.1. How many months of data are included in the Magist database?
   3.2. How many sellers are there?
   3.3. How many Tech sellers are there?
   3.4. What percentage of overall sellers are Tech sellers?
   3.5. What is the total amount earned by all sellers?
   3.6. What is the total amount earned by all Tech sellers?
   3.7. Can you calculate the average monthly income of all sellers?
   3.8. Can you calculate the average monthly income of Tech sellers?
   3.9. What percentage of total sales comes from tech products?

4. Delivery Performance
   4.1. What's the average time between the order being placed and the product being delivered?
   4.2. How many orders are delivered on time vs orders delivered with a delay?
   4.3. Is there any pattern for delayed orders, e.g. big products being delayed more often?

These key questions are designed to address the main concerns of executives considering a partnership with Magist. They provide a solid starting point for exploring the company's data, performance, and business potential. Feel free to dive deeper, experiment with the database, and explore new queries – the more you play with the data, the more insights you'll uncover!