

# Analysis Prompts

**Pre-requisites** - collect notes from your problem framing steps to supply as input into these prompts.

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## Prompts to Develop Business Domain

- With the information I've provided, develop me a comprehensive narrative on the business background.
  - With the information I've provided, develop me a comprehensive narrative on the business problem to explore.
  - With the data fields and descriptions provided, give me their respective data types and the business significance of each data field. Please format this in a table so I can have a data dictionary to reference.
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## Prompts to Explore analytics questions

- With the business background, business problem, and data dictionary, please develop me comprehensive and extensive list of descriptive analytics questions to explore.
  - With the business background, business problem, and data dictionary, please develop me comprehensive and extensive list of diagnostic analytics questions to explore.
  - With the business background, business problem, and data dictionary, please develop me comprehensive and extensive list of predictive analytics questions to explore.
  - With the business background, business problem, and data dictionary, please develop me comprehensive and extensive list of prescriptive analytics questions to explore.
  - For this list of [descriptive, diagnostic, predictions, prescriptive] analytics questions provided, please prioritize the questions based on how relevant they are to the business problem and business goal and group them into common themes.
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- Attached are 4 pdf's with a comprehensive list of prioritized questions for descriptive analytics, diagnostic analytics, and predictive analytics. you suggested that i ought to group questions from each of the 4 lists that are related and create an analysis and narrative arc on these groupings. please ingest these files, and group questions across the 4 files that have similar topic, similar outcome relevance, and flow like you suggested. i'd like to see 5 different possible reports that could be generated by a grouping of questions from these 4 documents. please provide the questions verbatim from the documents.
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I'm working on a [descriptive/diagnostic/predictive] analytics report and I have a question I want to analyze:  
[insert question]

Can you break this down for me by:

1. The emphasis of the question
2. How this is a "[What happened/Why it happened/What will happen]" question and is appropriate for [descriptive/diagnostic/predictive] analytics
3. The analysis focus
4. The possible techniques I could use (statistical and machine learning-based, if applicable)
5. The insight I'd be seeking from the analysis

**follow-on prompt** Please walk me through the analytics steps you provided using python.

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## Reusable Prompt Template for Analysis Plan Generation

Prompt: I'm working with a dataset related to: [insert subject, e.g., food purchasing habits, housing prices, student performance].

The business context is: [brief description of the organizational goal or stakeholder need]

The business question is: [state a clear, specific question]

The data includes these variables: [list variable names and types from your dataset or data dictionary]

I'd like you to generate a complete analysis plan that includes:

- Business question(s)
- Key concepts to measure
- Relevant variables and data sources
- Required transformations or feature engineering
- Hypotheses (if applicable)
- Recommended analytical methods (EDA, statistical tests, models)
- Suggested visualizations
- Expected outcomes and how they would inform decisions
- Any potential assumptions or limitations

Please format the output as a structured analysis plan, using professional language suitable for sharing with stakeholders.

## Extra Prompts

Please compile the verbatim user prompts from this chat thread

I need practice developing a narrative arc ...

I need practice devising an analytics plan ...

I need help generating descriptive/diagnostic/predictive analytics questions ...

I need help with problem framing ...

## ARCHIVED

- a. I would like help with designing and executing a data analysis problem. I'm going to provide you with the business background, business questions, and a data dictionary in the next several prompts.
- b. I would like help with designing and executing a data analytics plan. I'm going to provide you with the business background, business questions, a data dictionary, descriptive, diagnostic, and predictive questions in the next several prompts. Please provide me with an comprehensive, thorough, and extensive analysis plan that addresses a set of related descriptive, diagnostic, predictive, and prescriptive analytic questions such that the construction of a continuous narrative is simple. Please use 2-3 questions from each set of analytics questions that are related.