**1. Tell me about yourself**

**What they’re really asking:** What makes you the right fit for this job?

This question can sound broad and open-ended, but it’s really about your relationship with data analytics. Keep your answer focused on your journey toward becoming a data analyst. What sparked your interest in the field? What data analyst skills do you bring from previous jobs or coursework?

As you formulate your answer, try to answer these three questions:

* What excites you about data analysis?
* What excites you about this role?
* What makes you the best candidate for the job?

An interviewer might also ask:

* What made you want to become a data analyst?
* What brought you here?
* How would you describe yourself as a data analyst?

**2. What do data analysts do?**

**What they’re really asking:** Do you understand the role and the value data analysts bring to the company?

If you’re applying for a job as a data analyst, you likely know the basics of what data analysts do. Go beyond a simple definition to demonstrate your understanding of the role and its importance.

Outline the main tasks of a data analyst: identify, collect, clean, analyse, and interpret. Talk about how these tasks can lead to better business decisions, and be ready to explain the value of data-driven decision-making.

An interviewer might also ask:

* What is the process of data analysis?
* What steps do you take to solve a business problem?
* What is your process when you start a new project?

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**3. What was your most successful/most challenging data analysis project?**

**What they’re really asking:** What are your strengths and weaknesses?

When an interviewer asks you this type of question, they’re often looking to evaluate your strengths and weaknesses as a data analyst. How do you overcome challenges and measure the success of a data project?

Being asked about a project you’re proud of is a chance to highlight your skills and strengths. Do this by discussing your role in the project and what made it so successful. As you prepare your answer, look at the original job description to see if you can incorporate some of the skills and requirements listed.

If you get asked the negative version of a question (least successful or most challenging project), be honest as you focus your answer on lessons learned. Identify what went wrong—maybe your data was incomplete, or the sample size was too small—and talk about what you’d do differently in the future to correct the error. We’re human, and mistakes are a part of life. What’s important here is your ability to learn from them.

An interviewer might also ask:

* Walk me through your portfolio.
* What is your greatest strength as a data analyst? How about your greatest weakness?
* Tell me about a data problem that challenged you.

**4. What’s the largest data set you’ve worked with?**

**What they’re really asking:** Can you handle large data sets?

Many businesses have more data at their disposal than ever before. Hiring managers want to know you can work with large, complex data sets. Focus your answer on the size and type of data. How many entries and variables did you work with? What types of data were in the set?

The experience you highlight doesn't have to come from a job. You’ll often have the chance to work with data sets of varying sizes and types as a part of a data analysis course, bootcamp, certificate programme, or degree.

As you put together a portfolio, you may also complete some independent projects where you find and analyse a data set. All of this is good material to draw from when you answer.

An interviewer might also ask:

* What type of data have you worked with in the past?
* What problems did you encounter when analysing a data set?

**Data analysis process questions**

The work of a data analyst involves a range of tasks and skills. Interviewers will likely ask questions about various parts of the data analysis process to evaluate how well you perform each step.

**5. Explain how you would estimate . . . ?**

**What they’re really asking:** What’s your thought process? Are you an analytical thinker?

With this question, the interviewer presents you with a problem to solve. How would you estimate the best month to offer a discount on shoes? How would you estimate the weekly profit of your favourite restaurant?

The purpose here is to evaluate your problem-solving ability and overall comfort working with numbers. Since this is about how you think, think out loud as you work through your answer.

* What types of data would you need?
* Where might you find that data?
* Once you have the data, how would you use it to calculate an estimate?

**6. What is your process for cleaning data?**

**What they’re really asking:** How do you handle missing data, outliers, duplicate data, etc.?

As a data analyst, data preparation, also known as data cleaning or data cleansing, will often account for most of your time. A potential employer will want to see that you know the process and why it’s crucial.

In your answer, briefly describe data cleaning and why it’s essential to the overall process. Then walk through the steps you typically take to clean a data set. Consider mentioning how you handle:

* Missing data
* Duplicate data
* Data from different sources
* Structural errors
* Outliers

An interviewer might also ask:

* How do you deal with messy data?
* What is data cleaning?

**7. How do you explain technical concepts to a non-technical audience?**

**What they’re really asking:** How are your communication skills?

While drawing insights from data is a critical skill for a data analyst, communicating those insights to stakeholders, management, and non-technical co-workers is just as important.

Your answer should include the types of audiences you’ve presented to in the past (size, background, context). If you don’t have a lot of experience presenting, you can still talk about how you’d present data findings differently depending on the audience.

An interviewer might also ask:

* What is your experience conducting presentations?
* Why are communication skills important to a data analyst?
* How do you present your findings to management?

**Tip:** In some cases, your interviewer might not be involved in data analysis. The entire interview, then, is an opportunity to demonstrate your ability to communicate clearly. Consider practicing your answers on a non-technical friend or family member.

**8. Tell me about a time when you got unexpected results.**

**What they’re really asking:** Do you let the data or your expectations drive your analysis?

Effective data analysts let the data tell the story. After all, data-driven decisions are based on facts rather than intuition or gut feelings. When asking this question, an interviewer might be trying to determine:

* How you validate results to ensure accuracy
* How you overcome selection bias
* If you’re able to find new business opportunities in surprising results

Describe the situation that surprised you and what you learned from it. This is your opportunity to demonstrate your natural curiosity and excitement to learn new things from data.

**9. How would you measure the performance of our company?**

**What they’re really asking:** Have you done your research?

Before your interview, research the company, its business goals, and the larger industry. Consider the business problems that data analysis can solve and what types of data you’d need to analyze. Read up on how data is used by competitors and in the industry.

Show that you can be business-minded by tying this back to the company. How would this analysis bring value to their business?

**Technical skill questions**

Interviewers will seek candidates who can leverage various technical data analyst skills. These questions are geared towards evaluating your competency across several skills.

**10. What data analytics software are you familiar with?**

**What they’re really asking**: Do you have basic competency with common tools? How much training will you need?

This is an excellent time to revisit the job listing to look for any software emphasised in the description. As you answer, explain how you’ve used that software (or something similar). Show your familiarity with the tool by using associated terminology.

Mention software solutions you’ve used for various stages of the data analysis process. You don’t need to go into great detail here. What you used and what you used it for should suffice.

An interviewer might also ask:

* What data software have you used in the past?
* What data analytics software are you trained in?

**Tip:** In some cases, your interviewer might not be involved in data analysis. The entire interview, then, is an opportunity to demonstrate your ability to communicate clearly. Consider practicing your answers on a non-technical friend or family member.

**11. What scripting languages do you know?**

As a data analyst, you’ll likely have to use SQL and a statistical programming language like R or Python. If you’re already familiar with the language of choice at the company you’re applying to, great. If not, you can take this time to show enthusiasm for learning. Point out that your experience with one (or more) languages has set you up for success in learning new ones. Talk about how you’re currently growing your skills.

An interviewer might also ask:

* What functions in SQL do you like most?
* Do you prefer R or Python?

**Five SQL interview questions for data analysts**

Knowledge of SQL is one of the most important skills you can have as a data analyst. Many interviews for data analyst jobs include an SQL screening where you’ll be asked to write code on a computer or whiteboard. Here are five SQL questions and tasks to prepare for:

**1. Create an SQL query:** Be ready to use JOIN and COUNT functions to show a query result from a given database.

**2. Describe an SQL query:** Given an SQL query, explain what data is being retrieved.

**3. Modify a database:** Insert new rows, modify existing records, or permanently delete records from a database.

**4. Debug a query:** Correct the errors in an existing query to make it functional.

**5. Define an SQL term:** Understand what terms like foreign and primary key, truncate, drop, union, union all, and left join and inner join mean (and when you’d use them).

**12. What statistical methods have you used in data analysis?**

**What they’re really asking**: Do you have basic statistical knowledge?

Most entry-level data analyst roles will require at least a basic competency in statistics and an understanding of how statistical analysis ties into business goals. List the statistical calculations you’ve used and what business insights those calculations yielded.

If you’ve ever worked with or created statistical models, mention that. If you’re not already, familiarise yourself with the following statistical concepts:

* Mean
* Standard deviation
* Variance
* Regression
* Sample size
* Descriptive and inferential statistics

An interviewer might also ask:

* What is your knowledge of statistics?
* How have you used statistics in your work as a data analyst?

**13. How have you used Excel for data analysis in the past?**

Spreadsheets rank among the most common tools used by data analysts. It’s common for interviews to include one or more questions meant to gauge your skill in working with data in Microsoft Excel.

**Five Excel interview questions for data analysts**

Here are five more questions specific to Excel that you might be asked during your interview:

1. What is a VLOOKUP, and what are its limitations?

2. What is a pivot table, and how do you make one?

3. How do you find and remove duplicate data?

4. What are INDEX and MATCH functions, and how do they work together?

5. What’s the difference between a function and a formula?

**14. Explain the term…**

**What they’re asking:** Are you familiar with the data analytics terminology?

You may be asked to define a term or explain its meaning throughout your interview. In most cases, the interviewer is trying to determine how well you know the field and how effectively you communicate technical concepts in simple terms. While it’s impossible to know what exact terms you may be asked about, here are a few you should be familiar with:

* Normal distribution
* Data wrangling
* KNN imputation method
* Clustering
* Outlier
* N-grams
* Statistical model

**15. Can you describe the difference between . . . ?**

Similar to the last type of question, these interview questions help determine your knowledge of analytics concepts by asking you to compare two related terms. Some pairs you might want to be familiar with include:

* Data mining versus data profiling
* Quantitative versus qualitative data
* Variance versus covariance
* Univariate versus bivariate vs. multivariate analysis
* Clustered versus non-clustered index
* 1-sample T-test versus 2-sample T-test in SQL
* Joining versus blending in Tableau

**The final question: Do you have any questions?**

Almost every interview, regardless of field, ends with some variation of this question. This process is about you evaluating the company as much as it is about the company evaluating you.

Come prepared with a few questions for your interviewer, and ask any questions that come up during the interview. Some topics you can ask about include:

* What a typical day is like
* Expectations for your first 90 days
* Company culture and goals
* Your potential team and manager
* The interviewer’s favourite part about the company

Certainly, here are some general HR questions that might be asked during an interview for a Data Analyst position:

1. Tell me about your background and experience in data analysis.

- This is an opportunity to provide an overview of your educational and professional background related to data analysis.

2. What programming languages and tools are you proficient in for data analysis?

- Discuss your proficiency in languages like Python, R, or tools like Excel, SQL, and any specific data visualization tools you may have used.

3. Can you describe a specific data analysis project you've worked on in the past?

- Share details about a project you've completed, emphasizing the problem, your role, the data used, and the outcomes.

4. How do you handle missing or incomplete data when conducting an analysis?

- Explain your approach to handling missing data, whether it involves imputation or exclusion, and how you ensure data integrity.

5. Describe your experience with data visualization. What tools have you used to create visual representations of data?

- Discuss your experience with tools like Tableau, Power BI, or libraries like Matplotlib or Seaborn for creating data visualizations.

6. How do you stay updated with the latest trends and developments in data analysis?

- Talk about any courses, certifications, or professional organizations you're part of to keep your skills up-to-date.

7. Can you explain the process you follow when conducting exploratory data analysis (EDA)?

- Describe the steps you take when initially exploring a dataset, including summary statistics, visualizations, and hypothesis testing.

8. Tell me about a time when you faced a particularly challenging data analysis problem. How did you approach it?

- Provide an example of a complex analysis problem you've encountered and the strategies you used to solve it.

9. What do you think are the most important qualities for a Data Analyst to possess?

- Discuss qualities such as attention to detail, problem-solving skills, strong communication, and the ability to work with cross-functional teams.

10. How do you handle sensitive or confidential data in your work?

- Explain your approach to maintaining data privacy and security, including any experiences with data compliance regulations like GDPR or HIPAA.

11. Can you give an example of a project where your data analysis led to actionable business insights or decisions?

- Share a specific project where your analysis had a significant impact on the business and how the insights were used.

12. Describe your experience working in a team or collaborating with other departments on data-related projects.

- Discuss your ability to work collaboratively and communicate effectively with colleagues from different backgrounds.

13. What role do you think storytelling plays in data analysis, and how do you communicate your findings effectively?

- Explain the importance of storytelling in presenting data insights to non-technical stakeholders and how you convey complex information in a simple, understandable way.

These questions are designed to assess your technical skills, problem-solving abilities, and how well you can communicate your data analysis work and its impact on the organization. Be prepared to provide specific examples and demonstrate your expertise in data analysis during the interview.

1. Tell me about yourself.
2. Why are you interested in this position?
3. Why are you leaving your current job?
4. Can you describe a work or school instance in which you messed up?
5. Tell me about a time when you experienced conflict with a co-worker and how you dealt with it.
6. What do you know about our company?
7. How would you improve our current product or service?
8. How would your current manager describe you?
9. Where do you see yourself in five years?
10. What questions do you have for me?