

# SYSTEM ANALYSIS AND DESIGN METHODS EXERCISES ANSWERS

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### System Analysis and Design Methods Exercises: Questions and Answers

**Question 1: Explain the main differences between structured and object-oriented analysis. Answer:** Structured analysis focuses on data flow and functional decomposition, while object-oriented analysis emphasizes identifying and modeling real-world objects and their relationships.

**Question 2: Describe the steps involved in developing a use case diagram. Answer:**

1. Identify actors and their goals.
2. Define use cases that represent user interactions with the system.
3. Draw the use case diagram by connecting actors to use cases.

**Question 3: What is the purpose of a data flow diagram (DFD)? Answer:** A DFD visually represents the flow of data through a system, showing inputs, outputs, processes, and data stores. It helps analysts understand how data is transformed and used.

**Question 4: Discuss the advantages of using a prototyping approach in system design. Answer:** Prototyping allows stakeholders to experience the system early on, providing valuable feedback and reducing the risk of errors. It also speeds up development and ensures that the final product meets user expectations.

**Question 5: Explain the concept of normalization in database design. Answer:** Normalization is a process of dividing data into tables to eliminate redundancies and

ensure data integrity. It involves??????? to ensure that each attribute in a table is dependent on the primary key.

## **Show Your Work: A Comprehensive Guide for Weebly Users**

**Question 1: What is the "Show Your Work" feature in Weebly?** Answer: "Show Your Work" is a free tool that allows Weebly users to showcase their website's development process. It provides a detailed timeline of edits, collaborations, and changes made to the website over time.

**Question 2: How do I enable the "Show Your Work" feature?** Answer: To enable "Show Your Work," go to the Settings tab in your Weebly editor. Under "Site Options," check the box labeled "Show Your Work." Once enabled, a "Show Your Work" button will appear in the top right corner of the editor.

**Question 3: What are the benefits of using the "Show Your Work" feature?** Answer: The "Show Your Work" feature offers several benefits:

- **Track website history:** It provides a comprehensive record of all changes made to the website, enabling you to easily revert to previous versions if necessary.
- **Collaborate efficiently:** If multiple users are working on the website, "Show Your Work" allows you to see each other's contributions and avoid duplication of effort.
- **Share progress with clients:** You can share the "Show Your Work" timeline with clients to provide transparency and demonstrate the work you're doing on their behalf.

**Question 4: How do I use the "Show Your Work" feature?** Answer: To use the "Show Your Work" feature:

- **Click the "Show Your Work" button:** in the top right corner of the editor.
- **Review the timeline:** A detailed timeline of edits will appear, including the user who made each change, the date and time, and a description of the change.

- **Revert to previous versions:** By clicking on a specific date in the timeline, you can revert your website to the version created at that time.

**Question 5: Are there any limitations to the "Show Your Work" feature?**

Answer: The "Show Your Work" feature has some limitations:

- **Storage limitations:** Weebly only stores a limited number of revisions for each website.
- **Manual updates:** The feature does not automatically capture changes made through external methods (e.g., FTP or custom code).
- **Limited sharing options:** The "Show Your Work" timeline can only be shared with other Weebly users.

**Treasure Island Oxford Bookworms Activities Answers**

**1. Comprehension Questions**

- Q: What is the name of the narrator?
- A: Jim Hawkins
- Q: Where does the story take place?
- A: Treasure Island
- Q: Who is the captain of the Hispaniola?
- A: Billy Bones

**2. Vocabulary Activities**

- Q: What does "cutlass" mean?

- A: A curved sword
- Q: What is the meaning of "doubloon"?
- A: A Spanish gold coin
- Q: What does "scuttlebutt" refer to?
- A: A ship's water cask

### **3. Character Analysis**

- Q: Describe the character of Jim Hawkins.
- A: Jim is a young boy who is brave, curious, and loyal.
- Q: What are Long John Silver's motives?
- A: Silver is a pirate who seeks to obtain the treasure on Treasure Island.
- Q: How does Dr. Livesey contribute to the story?
- A: Dr. Livesey provides medical and emotional support to the crew.

### **4. Plot Summary Activities**

- Q: What is the main conflict in the story?
- A: The quest for the treasure and the battle between the pirates and the loyal crew.

- Q: Describe the climax of the story.
- A: The final confrontation between Jim and Silver for control of the treasure.
- Q: What is the resolution of the story?
- A: The pirates are defeated, and Jim and his allies claim the treasure.

## 5. Discussion Questions

- Q: What themes are explored in the story?
- A: Greed, loyalty, courage, and the struggle between good and evil.
- Q: How does the story reflect the values and beliefs of the time it was written?
- A: It reflects the era of British imperialism and adventure, as well as the fascination with pirates and treasure.
- Q: What modern adaptations of the story have you encountered?
- A: Examples include movies, TV shows, and video games.

**How to get Power Query for Excel?** How do you get Power Query in Excel? Power Query is built into Excel 2016 and later versions but may need to be activated sometimes. To activate it, users can go to the "File" menu, select "Options," and then choose "Add-ins." They can then select "COM Add-ins" and enable "Microsoft Power Query for Excel."

**Is Power Query free for Excel?** Power Query is a free add-in for Excel 2016 and beyond, as well as a built-in Excel feature for Microsoft 365. If your organization uses

those versions of Excel, you do not need to download Power Query. You just need to click the button named Get Data in the Get & Transform section in the Data tab.

**Does Excel in Office 365 have Power Query?** If you're a Microsoft 365 subscriber, the Power Query experience is available in Excel for the Mac from the Get Data command on the Data tab. The following table summarizes what data sources are supported and what you can do with them.

**How to launch a Power Query from Excel?** You can open the Power Query Editor by selecting Launch Query Editor from the Get Data command in the Get & Transform Data group, but it also opens when you connect to a data source, create a new query, or load a query.

**How to activate Power Query in Excel 365?** Do one of the following: In Excel Select Data > Queries & Connections > Queries tab. In the Power Query Editor Select Data > Get Data > Launch Power Query Editor, and view the Queries pane on the left.

**Is Power Query available in Excel online?** Excel incorporates Power Query (also called Get & Transform) technology to provide greater capability when importing, refreshing, and authenticating data sources, managing Power Query data sources, and shaping the data into a table that fits your requirements.

**Is Power Query better than Excel?** Large Datasets: Power Query is well-suited for handling large datasets, as it performs transformations directly on the source data before loading it into Excel. This can help improve performance and reduce memory usage compared to Excel formulas.

**Do I need to install Power Query in Excel?** Power Query is an incredibly useful tool for Excel users looking to import, connect to, and shape external data. The process of adding the tool to Excel depends on which version you are using. Users of Excel 2016 or higher do not have to add Power Query to Excel.

**How do I convert Excel to Power Query?** Position the cursor on the Excel table, Select Data > Get & Transform Data > From Table/Range. Excel opens the Power Query Editor with your data displayed in a preview pane. To display all query tables in the workbook from the Queries pane, select the arrow to the left of the preview

pane.

**Does Power Query replace VBA?** One might see Power Query as a machine. Once you have built the “machine”, it will continuously repeat the tasks for any new data added to Excel. It is a much easier alternative to automating processes than VBA programming because the Power Query does not need coding.

**Is Power Pivot the same as Power Query?** Power Query (Get & Transform) and Power Pivot complement each other. Power Query is the recommended experience for importing data. Power Pivot is great for modeling the data you've imported. Use both to shape your data in Excel so you can explore and visualize it in PivotTables, PivotCharts, and Power BI.

**Why can't I see the Power Query in Excel?** If your Power Query tab ever goes missing, you can usually re-enable the add-in by going to the COM Add-ins menu. There are a few ways to get to the COM Add-ins menu. File menu. Click Options on left side menu.

**Is Power Query built into Excel?** Power Query is a technology embedded in Excel and other Microsoft products designed to help you shape your data. In Excel, select the Data tab on the ribbon to see the Get & Transform Data and Queries & Connections groups.

**How to download Power Query in Excel?**

**Why use Power Query?** Because Power Query provides connectivity to hundreds of data sources and over 350 different types of data transformations for each of these sources, you can work with data from any source and in any shape.

**How do you launch the Power Query in Excel?**

**Where is Power Query in 365?**

**How do I connect Excel to Power Query?**

**How to load Excel data into Power Query?**

**Can you create a Power Query in Excel?** To create Power Query formulas in Excel, you can use the Query Editor formula bar, or the Advanced Editor. The Query

Editor is a tool included with Power Query that lets you create data queries and formulas in Power Query. The language used to create those formulas is the Power Query Formula Language.

### **How do I use Power Query and Excel at the same time?**

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**How do you enable load Power Query in Excel?** In Excel, with Power Query closed, go to the Data tab, and select Queries and Connections so the query list pops out in the right hand pane. Right-click on each query and select Load To..., then... DataModel (checkbox at bottom) this will load the data into the data model for use by PowerPivot or CUBE functions.

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