Classify a question into one of the following categories based on the provided tabular data:

1. \*\*Lookup\*\* – Directly retrieves a value from the table without any additional operations.

2. \*\*Advanced Lookup\*\* – Involves counting, sorting, ranking (including mininmum / maximum), or simple comparison of different values.

3. \*\*Boolean\*\* – Requires a yes/no or true/false answer.

4. \*\*Calculation\*\* – Requires arithmetic operations like summation, percentage calculation, subtractions, or any other sophisticaded math calculations.

5. \*\*Position Related\*\* – Asks about the next, previous, or any other positioned item in the table in relation to a given one (e.g., "Who ranked right after Turkey?").

\*\*Provide concise reasoning (within 500 tokens) and a final classification.\*\*

---

\*\*Input:\*\*

- \*\*Question:\*\* {Question}

- \*\*Table Data:\*\* {Table}

---

### \*\*Output Format:\*\*

1. \*\*Step-by-step reasoning\*\* (keywords, operations, and table structure).

2. \*\*Final classification:\*\*

\*\*Answer: <category>\*\*

---

### \*\*Examples\*\*

#### \*\*Example 1\*\*

\*\*Question:\*\* \*What was the total regulated business operating revenue of American Water Works in 2023?\*

\*\*Output:\*\*

- Retrieves a single value from the "Total Regulated Businesses" row under "Operating Revenues."

- No calculations or sorting required → \*\*Lookup\*\*.

\*\*Answer: Lookup\*\*

... (more examples for each category – refer to codebase on GitHub)

You are tasked with answering questions based on the provided table data. Your task is to give the correct answer based on the given table data. Only use the information presented. If you can't find a correct answer based upon the provided data indicate so.

Think step-by-step, but in a short and comprehensive manner (max 500 tokens). Provide your final conclusion to the question as a single statement using the following format:

Answer: <Answer>

Provide the answer <Answer> as one of the following:

- A number for questions about quantities.

- A word or phrase for questions about categories, names, etc.

- A semicolon separated list if the question asks for multiple answers (e.g. Brazil; Argentina; Germany).

- 'None' if the context doesn't provide information about the given question.

Example:

- What was the sales revenue of Company Y from 2022 to 2024?

<Step-by-step reasoning>

Answer: 2,500

- What is the main product of Company Z?

<Step-by-step reasoning>

Answer: ZetaDrug

- Which clubs have won the german Bundesliga in the last five years?

<Step-by-step reasoning>

Answer: Bayern Munich; Bayer Leverkusen

- What's stock market price of Company X in 2021?

<Step-by-step reasoning>

Answer: None

{table\_title} # E.g.: ‘Table Title: Public Toilet’, empty string if not existant

Table data: {table}

Question: {question}

You are tasked with answering questions based on document chunks. Your task is to give the correct answer based on the given data. Only use the information presented. If you can't find a correct answer based upon the provided data indicate so.

Think step-by-step, but in a short and comprehensive manner (max 500 tokens). Provide your final conclusion to the question as a single statement using the following format:

Answer: <Answer>

Provide the answer <Answer> as one of the following:

- A number for questions about quantities.

- A word or phrase for questions about categories, names, boolean, etc.

- 'None' if the context doesn't provide information about the given question.

Example:

- What was the sales revenue of Company Y from 2022 to 2024?

Answer: 2,500

<Step-by-step reasoning>

- What is the main product of Company Z?

<Step-by-step reasoning>

Answer: ZetaDrug

- What's stock market price of Company X in 2021?

<Step-by-step reasoning>

Answer: None

Context: {context}

Question: {question}

You are an AI assistant tasked with summarizing tables in a \*\*coherent, structured, and concise manner\*\* for retrieval-based applications. Your goal is to generate a short but meaningful summary that retains the most relevant details while being easy to understand.

### \*\*Instructions:\*\*

- \*\*Preceding Sentence:\*\* {preceding\_sentence}

\*(This is the sentence that directly precedes the table. It may provide context, but sometimes it may not be helpful.)\*

- \*\*Table Summary:\*\*

- The summary \*\*must begin with:\*\* "Presented in this table..."

- Provide a \*\*coherent summary\*\* in \*\*a maximum of 3 sentences\*\*.

- Capture the \*\*columns, row structure, and intent\*\* of the table.

- Highlight \*\*key insights or trends\*\* if applicable.

- \*\*Limit the output to 500 tokens\*\* while ensuring clarity and completeness.

Here is the table that needs summarization:

{table}

Table Summary: Presented in this table <concise summary in 3 sentences>.