

Input and output::

1,what are the specialities in Cleveland Clinic?

The specialities in Cleveland Clinic are Primary Care Pediatrics, Human Resources Employee Health, Internal Medicine and Geriatrics, Allergy and Clinical Immunology, Center for Spine Health, Obstetrics and Gynecology, Urology, Diagnostic Radiology, and Internal Medicine and Geriatrics, Internal Medicine.

Output screenshot:::

```
agent.run("what are the specialities in Cleveland Clinic")
```

```
> Entering new AgentExecutor chain...
```

```
Thought: I need to find out what specialities are in Cleveland Clinic
```

```
Action: python_repl_ast
```

```
Action Input: df[df['Hospital Name'] == 'Cleveland Clinic']['Speciality'].unique()
```

```
Observation: ['Primary Care Pediatrics' 'Human Resources Employee Health'
```

```
'Internal Medicine and Geriatrics' 'Allergy and Clinical Immunology'
```

```
'Center for Spine Health' 'Obstetrics and Gynecology' 'Urology'
```

```
'Diagnostic Radiology'
```

```
'Internal Medicine and Geriatrics, Internal Medicine']
```

```
Thought:/usr/local/lib/python3.10/dist-packages/langchain/tools/python/tool.py:137: LangChainPendingDeprecationWarning: On 2023-10-27 this module will be deprecated  
warn_deprecated()
```

```
I now know the specialities in Cleveland Clinic
```

```
Final Answer: The specialities in Cleveland Clinic are Primary Care Pediatrics, Human Resources Employee Health, Internal Medicine and Geriatrics, Allergy and Clinical
```

```
> Finished chain.
```

```
'The specialities in Cleveland Clinic are Primary Care Pediatrics, Human Resources Employee Health, Internal Medicine and Geriatrics, Allergy and Clinical Immunology,  
ne Health, Obstetrics and Gynecology, Urology, Diagnostic Radiology, and Internal Medicine and Geriatrics, Internal Medicine.'
```

2, "what hospitals provide Gynecology???.

'ans::The hospitals that provide Gynecology are: Cleveland Clinic, Cleveland Clinic Abu Dhabi, and Cleveland Clinic Main Campus.

screenshots::

```
agent.run("what hospitals provide Gynecology???" )
```

> Entering new AgentExecutor chain...

Thought: I need to find out which hospitals provide Gynecology

Action: python_repl_ast

Action Input: df[df['Speciality'].str.contains('Gynecology')]['Hospital Name'].unique()

I now know the final answer

Final Answer: The hospitals that provide Gynecology are: Cleveland Clinic, Cleveland Clinic Abu Dhabi, and Cleveland Clinic Main Campus.

> Finished chain.

'The hospitals that provide Gynecology are: Cleveland Clinic, Cleveland Clinic Abu Dhabi, and Cleveland Clinic Main Campus.'

3,describe about Addenbrooke's Hospital (Cambridge)?

ans:Addenbrooke's Hospital in Cambridge has doctors with specialties in Neurology, Genetics, Transplant Surgery, Endocrinology, and Cardiology

screenshot::

```
agent.run("describe about Addenbrooke's Hospital (Cambridge)")
```

```
> Entering new AgentExecutor chain...
Thought: I need to find out information about Addenbrooke's Hospital
Action: python_repl_ast
Action Input: df[df['Hospital Name'] == "Addenbrooke's Hospital"]
Observation:
  Doctor Name      Speciality Hospital Name \
68 Dr. Andrew Mitchell      Neurology Addenbrooke's Hospital
69 Dr. Jessica Turner        Genetics Addenbrooke's Hospital
70 Dr. David Baker Transplant Surgery Addenbrooke's Hospital
71 Dr. Anna Lewis      Endocrinology Addenbrooke's Hospital
72 Dr. Peter Clark        Cardiology Addenbrooke's Hospital

  Location Specialty
68 Cambridge      NaN
69 Cambridge      NaN
70 Cambridge      NaN
71 Cambridge      NaN
72 Cambridge      NaN
Thought:/usr/local/lib/python3.10/dist-packages/langchain/tools/python/tool.py:137: LangChainPendingDeprecationWarning: On 2023-10-27 this module will be be deprecated
warn_deprecated()
I now know the doctors and specialties at Addenbrooke's Hospital
Final Answer: Addenbrooke's Hospital in Cambridge has doctors with specialties in Neurology, Genetics, Transplant Surgery, Endocrinology, and Cardiology.

> Finished chain.
'Addenbrooke's Hospital in Cambridge has doctors with specialties in Neurology, Genetics, Transplant Surgery, Endocrinology, and Cardiology.'
```

4,Royal Marsden Hospital experstise??

ans:Oncology, Radiation Oncology, Surgical Oncology, Hematology, Clinical Trials, Oncology

Screenshot::

```
agent.run("Royal Marsden Hospital experstise??")
```

> Entering new AgentExecutor chain...

Thought: I need to find the speciality of the doctors at Royal Marsden Hospital

Action: python_repl_ast

Action Input: df[df['Hospital Name'] == 'Royal Marsden Hospital']['Speciality'].unique()

Observation: ['Oncology' 'Radiation Oncology' 'Surgical Oncology' 'Hematology' 'Clinical Trials, Oncology']

Thought:/usr/local/lib/python3.10/dist-packages/langchain/tools/python/tool.py:137: LangChainPendingDeprecationWarning: warn_deprecated(

I now know the final answer

Final Answer: Oncology, Radiation Oncology, Surgical Oncology, Hematology, Clinical Trials, Oncology

> Finished chain.

'Oncology, Radiation Oncology, Surgical Oncology, Hematology, Clinical Trials, Oncology'