COVID-19 Tracker

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COVID-19-Tracker

Developed by TwistingTornadoes

Chapter 2

Namespace Index

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Chapter 3

File Index

3.1 File List

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Chapter 4

Namespace Documentation

4.1 covid_data Namespace Reference

Functions

- def create_table (table_name, c)
- def insert_data (table_name, arr, c, conn1)
- def print_data (table_name, c, conn1)
- def state_database_collection (c, conn1)
- def create_advisories_table (table_name, c)
- def insert_advisories_data (table_name, arr, c, conn1)
- def print_advisories_data (table_name, c, conn1)
- def advisory_data_collection (c, conn1)
- def create_research_papers_table (table_name, c)
- def insert_research_papers_in_table (table_name, arr, c, conn1)
- def print_research_papers_data (table_name, c, conn1)
- def research_paper_collection (c, conn1)
- def main ()

Variables

- list header = ["Name","Cases","Increased_cases","Cured","Cured_and_Sent","Active","Deaths","Deaths_↩ Today"]
- list research_paper_header = ["Title","link"]
- list advisories_header = ["Date","Heading","Link"]

4.1.1 Detailed Description

```
COVID-19 Tracker.
Developed by: TwistingTornadoes
```

4.1.2 Function Documentation

4.1.2.1 advisory_data_collection()

```
def covid_data.advisory_data_collection (
              c,
              conn1 )
```

```
This function crawls the government advisories on COVID-19 from the URL https://www.mohfw.gov.in/
and inserts it into one of 9 tables listed below:
       1. Awareness advisories
       2. Behavioural advisories
       3. Citizens advisories
       4. Employee advisories
       5. Hospital advisories
       6. Inspirational advisories
       7. Travel advisories
       8. Training advisories
       9. States advisories
```

Definition at line 240 of file covid_data.py.

4.1.2.2 create_advisories_table()

```
def covid_data.create_advisories_table (
              table_name,
              c )
```

```
This function creates the advisories table
uses try and except
Inside try block we are creating
a table and in case if table is already
present inside the database then inside the except block
we are just printing the message that this table already exists.
```

Definition at line 184 of file covid_data.py.

4.1.2.3 create_research_papers_table()

```
def covid_data.create_research_papers_table (
              table_name,
              c )
```

```
This function creates the research papers table keeping Title as the primary key
we are using try to create the table inside the database if it does not exist and
if table exists then control simply passes to except.
```

Definition at line 288 of file covid_data.py.

4.1.2.4 create_table()

```
def covid_data.create_table (
              table_name,
              c )
```

```
This function creates state-wise tables
we are using the try block to create the table if it does not exists inside the database
and simply passing the control if table exists...
```

Definition at line 25 of file covid_data.py.

4.1.2.5 insert_advisories_data()

```
def covid_data.insert_advisories_data (
              table_name,
              arr,
              c,
              conn1 )
```

```
This function inserts advisory data into its respective table
this also includes try and except functionality where inside the try block
we are inserting the Date,Heading and Link into the table and
if entry is already present inside the table then
inside except block we are updating the table entry with new one.
```

Definition at line 201 of file covid_data.py.

4.1.2.6 insert_data()

```
def covid_data.insert_data (
              table_name,
              arr,
              c,
              conn1 )
```

```
This function insert records in state-wise tables
we have used try and except functionality
Inside try block we are inserting the entry inside the table
whereas updating the entry inside the except block as that entry is already present inside the table.
```

Definition at line 39 of file covid_data.py.

4.1.2.7 insert_research_papers_in_table()

```
def covid_data.insert_research_papers_in_table (
              table_name,
              arr,
              c,
              conn1 )

This function inserts records into the research papers table
we are using try and except functionality here also where inside the try block
we are inserting into the table and if entry already persists
then we are updating the table entry inside the except block.
```

Definition at line 302 of file covid_data.py.

4.1.2.8 main()

```
def covid_data.main ( )

Main function. The flow of control is as follows:
        1. Create 'covid_19_database'
        2. Crawl state-wise data
        3. Crawl advisories
        4. Crawl research papers
```

Definition at line 367 of file covid_data.py.

4.1.2.9 print_advisories_data()

```
def covid_data.print_advisories_data (
              table_name,
              c,
              conn1 )

This function prints the advisory data inserted in the advisories table
```

Definition at line 228 of file covid_data.py.

4.1.2.10 print_data()

```
def covid_data.print_data (
              table_name,
              c,
              conn1 )

This function prints the state-wise data inserted in the table
```

Definition at line 70 of file covid_data.py.

4.1.2.11 print_research_papers_data()

```
def covid_data.print_research_papers_data (
              table_name,
              c,
              conn1 )
```

```
This function prints the contents of the research papers table
```

Definition at line 329 of file covid_data.py.

4.1.2.12 research_paper_collection()

```
def covid_data.research_paper_collection (
              c,
              conn1 )
```

```
This function fetches the links of papers from the first 5 pages of google scholar with keywords "covid 19"
and adds them to the research paper table
```

Definition at line 342 of file covid_data.py.

4.1.2.13 state_database_collection()

```
def covid_data.state_database_collection (
              c,
              conn1 )
```

```
This function crawls state-wise and district-wise data from
the URL "https://www.grainmart.in/news/covid-19-coronavirus-india-state-and-district-wise-tally/"
and calls functions to execute DML queries
```

Definition at line 82 of file covid_data.py.

4.1.3 Variable Documentation

4.1.3.1 advisories_header

```
list advisories_header = ["Date","Heading","Link"]
```

Definition at line 20 of file covid_data.py.

4.1.3.2 header

```
list header = ["Name","Cases","Increased_cases","Cured","Cured_and_Sent","Active","Deaths","Deaths↩
_Today"]
```

Definition at line 18 of file covid_data.py.

4.1.3.3 research_paper_header

```
list research_paper_header = ["Title","link"]
```

Definition at line 19 of file covid_data.py.

4.2 states_districts Namespace Reference

Variables

- string url = "https://www.grainmart.in/news/covid-19-coronavirus-india-state-and-district-wise-tally/"
- r = requests.get(url)
- soup = BeautifulSoup(r.content,'html.parser')
- list states = [ ]
- string state_name = ""
- dictionary d = {}
- list state_arr = [ ]
- list district_arr = [ ]
- list state = [ ]
- list districts = [ ]
- list dis = [ ]
- int count = 0
- list district = [ ]
- geeky_file = open('geekyfile.txt', 'wt')

4.2.1 Variable Documentation

4.2.1.1 count

```
int count = 0
```

Definition at line 24 of file states_districts.py.

4.2.1.2 d

```
dictionary d = {}
```

Definition at line 10 of file states_districts.py.

4.2.1.3 dis

```
list dis = []
```

Definition at line 22 of file states_districts.py.

4.2.1.4 district

```
list district = []
```

Definition at line 28 of file states_districts.py.

4.2.1.5 district_arr

```
list district_arr = []
```

Definition at line 12 of file states_districts.py.

4.2.1.6 districts

```
list districts = []
```

Definition at line 21 of file states_districts.py.

4.2.1.7 geeky_file

```
geeky_file = open('geekyfile.txt', 'wt')
```

Definition at line 36 of file states_districts.py.

4.2.1.8 r

```
r = requests.get(url)
```

Definition at line 6 of file states_districts.py.

4.2.1.9 soup

```
soup = BeautifulSoup(r.content,'html.parser')
```

Definition at line 7 of file states_districts.py.

4.2.1.10 state

```
list state = []
```

Definition at line 14 of file states_districts.py.

4.2.1.11 state_arr

```
list state_arr = []
```

Definition at line 11 of file states_districts.py.

4.2.1.12 state_name

```
string state_name = ""
```

Definition at line 9 of file states_districts.py.

4.2.1.13 states

```
list states = []
```

Definition at line 8 of file states_districts.py.

4.2.1.14 url

```
string url = "https://www.grainmart.in/news/covid-19-coronavirus-india-state-and-district-wise-tally/"
```

Definition at line 4 of file states_districts.py.

Chapter 5

File Documentation

5.1 C:/Users/apoor/Downloads/COVID-19-Tracker-master/advisory.php File Reference

5.2 C:/Users/apoor/Downloads/COVID-19-Tracker-master/awareness.php File Reference

Variables

- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Awareness_advisories"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.2.1 Variable Documentation

5.2.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 114 of file awareness.php.

5.2.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 121 of file awareness.php.

5.2.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Awareness_advisories"
```

Definition at line 119 of file awareness.php.

5.2.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 129 of file awareness.php.

5.3 C:/Users/apoor/Downloads/COVID-19-Tracker-master/behaviour.php File Reference

Variables

- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Behavioural_advisories"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.3.1 Variable Documentation

5.3.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 114 of file behaviour.php.

5.3.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 121 of file behaviour.php.

5.3.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Behavioural_advisories"
```

Definition at line 119 of file behaviour.php.

5.3.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 129 of file behaviour.php.

5.4 C:/Users/apoor/Downloads/COVID-19-Tracker-master/citizen.php File Reference

Variables

- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Citizens_advisories"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.4.1 Variable Documentation

5.4.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 114 of file citizen.php.

5.4.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 121 of file citizen.php.

5.4.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Citizens_advisories"
```

Definition at line 119 of file citizen.php.

5.4.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 129 of file citizen.php.

5.5 C:/Users/apoor/Downloads/COVID-19-Tracker-master/covid_data.py File Reference

Namespaces

- covid_data

Functions

- def create_table (table_name, c)
- def insert_data (table_name, arr, c, conn1)
- def print_data (table_name, c, conn1)
- def state_database_collection (c, conn1)
- def create_advisories_table (table_name, c)
- def insert_advisories_data (table_name, arr, c, conn1)
- def print_advisories_data (table_name, c, conn1)
- def advisory_data_collection (c, conn1)
- def create_research_papers_table (table_name, c)
- def insert_research_papers_in_table (table_name, arr, c, conn1)
- def print_research_papers_data (table_name, c, conn1)
- def research_paper_collection (c, conn1)
- def main ()

Variables

- list header = ["Name","Cases","Increased_cases","Cured","Cured_and_Sent","Active","Deaths","Deaths_↩ Today"]
- list research_paper_header = ["Title","link"]
- list advisories_header = ["Date","Heading","Link"]

5.6 C:/Users/apoor/Downloads/COVID-19-Tracker-master/detail.php File Reference

Variables

- $string = $_SESSION['state']
- $district = $_SESSION['district']
- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT SUM(Cases), SUM(Cured), SUM(Deaths) FROM $string"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.6.1 Variable Documentation

5.6.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 149 of file detail.php.

5.6.1.2 $district

```
$district = $_SESSION['district']
```

Definition at line 147 of file detail.php.

5.6.1.3 $result

```
$result = $conn->query($sql)
```

Definition at line 155 of file detail.php.

5.6.1.4 $sql

```
if ( $conn->connect_error) $sql = "SELECT SUM(Cases), SUM(Cured), SUM(Deaths) FROM $string"
```

Definition at line 154 of file detail.php.

5.6.1.5 $string

```
$string = $_SESSION['state']
```

Definition at line 146 of file detail.php.

5.6.1.6 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 164 of file detail.php.

5.7 C:/Users/apoor/Downloads/COVID-19-Tracker-master/empolyee.php File Reference

Variables

- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Employees_advisories"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.7.1 Variable Documentation

5.7.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 114 of file empolyee.php.

5.7.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 121 of file empolyee.php.

5.7.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Employees_advisories"
```

Definition at line 119 of file empolyee.php.

5.7.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 129 of file empolyee.php.

5.8 C:/Users/apoor/Downloads/COVID-19-Tracker-master/hospital.php File Reference

Variables

- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Hospitals_advisories"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.8.1 Variable Documentation

5.8.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 114 of file hospital.php.

5.8.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 121 of file hospital.php.

5.8.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Hospitals_advisories"
```

Definition at line 119 of file hospital.php.

5.8.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 129 of file hospital.php.

5.9 C:/Users/apoor/Downloads/COVID-19-Tracker-master/index.php File Reference

Variables

- if(isset($_POST['submit'])) $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT SUM(Cases), SUM(Cured), SUM(Deaths) FROM States"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.9.1 Variable Documentation

5.9.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 190 of file index.php.

5.9.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 196 of file index.php.

5.9.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT SUM(Cases), SUM(Cured), SUM(Deaths) FROM States"
```

Definition at line 195 of file index.php.

5.9.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 205 of file index.php.

5.10 C:/Users/apoor/Downloads/COVID-19-Tracker-master/inspire.php File Reference

Variables

- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Inspirational_advisories"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.10.1 Variable Documentation

5.10.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 115 of file inspire.php.

5.10.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 122 of file inspire.php.

5.10.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Inspirational_advisories"
```

Definition at line 120 of file inspire.php.

5.10.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 130 of file inspire.php.

5.11 C:/Users/apoor/Downloads/COVID-19-Tracker-master/paper.php File Reference

Variables

- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT Title, link FROM rpapers"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.11.1 Variable Documentation

5.11.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 107 of file paper.php.

5.11.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 114 of file paper.php.

5.11.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT Title, link FROM rpapers"
```

Definition at line 112 of file paper.php.

5.11.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 122 of file paper.php.

5.12 C:/Users/apoor/Downloads/COVID-19-Tracker-master/README.md File Reference

5.13 C:/Users/apoor/Downloads/COVID-19-Tracker-master/readme.txt File Reference

Variables

- COVID tracker Developed by
- COVID tracker Developed extract it and rename the folder to Covid ∗Place this folder inside htdocs folder of your xampp installation directory To begin execution
- COVID tracker Developed extract it and rename the folder to Covid ∗Place this folder inside htdocs folder of your xampp installation directory To begin launch the Apache server and MySQL service from Xampp control panel ∗Run the python script covid_data py This will create the database entry and add all the different tables to it ∗After this
- COVID tracker Developed extract it and rename the folder to Covid ∗Place this folder inside htdocs folder of your xampp installation directory To begin launch the Apache server and MySQL service from Xampp control panel ∗Run the python script covid_data py This will create the database entry and add all the different tables to it ∗After launch the web application by pasting this link in your browser and clicking on Go localhost Covid index php ∗ Now
- COVID tracker Developed extract it and rename the folder to Covid ∗Place this folder inside htdocs folder of your xampp installation directory To begin launch the Apache server and MySQL service from Xampp control panel ∗Run the python script covid_data py This will create the database entry and add all the different tables to it ∗After launch the web application by pasting this link in your browser and clicking on Go localhost Covid index php you should see the web app come up on the screen Scheduling python job to run periodically

5.13.1 Variable Documentation

5.13.1.1 by

```
COVID tracker Developed by
```

Definition at line 2 of file readme.txt.

5.13.1.2 execution

```
COVID tracker Developed extract it and rename the folder to Covid* Place this folder inside
htdocs folder of your xampp installation directory To begin execution
```

Definition at line 23 of file readme.txt.

5.13.1.3 Now

```
COVID tracker Developed extract it and rename the folder to Covid* Place this folder inside
htdocs folder of your xampp installation directory To begin launch the Apache server and My↩
SQL service from Xampp control panel* Run the python script covid_data py This will create
the database entry and add all the different tables to it* After launch the web application by
pasting this link in your browser and clicking on Go localhost Covid index php* Now
```

Definition at line 28 of file readme.txt.

5.13.1.4 periodically

```
COVID tracker Developed extract it and rename the folder to Covid* Place this folder inside
htdocs folder of your xampp installation directory To begin launch the Apache server and MyS↩
QL service from Xampp control panel* Run the python script covid_data py This will create the
database entry and add all the different tables to it* After launch the web application by
pasting this link in your browser and clicking on Go localhost Covid index php you should see
the web app come up on the screen Scheduling python job to run periodically
```

Definition at line 31 of file readme.txt.

5.13.1.5 this

```
COVID tracker Developed extract it and rename the folder to Covid* Place this folder inside
htdocs folder of your xampp installation directory To begin launch the Apache server and My↩
SQL service from Xampp control panel* Run the python script covid_data py This will create the
database entry and add all the different tables to it* After this
```

Definition at line 26 of file readme.txt.

5.14 C:/Users/apoor/Downloads/COVID-19-Tracker-master/↩ References.txt File Reference

5.15 C:/Users/apoor/Downloads/COVID-19-Tracker-master/states.php File Reference

Variables

- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT Date, Heading, Link FROM States_advisories"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.15.1 Variable Documentation

5.15.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 115 of file states.php.

5.15.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 122 of file states.php.

5.15.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT Date, Heading, Link FROM States_advisories"
```

Definition at line 120 of file states.php.

5.15.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 130 of file states.php.

5.16 C:/Users/apoor/Downloads/COVID-19-Tracker-master/states_districts.py File Reference

Namespaces

- states_districts

Variables

- string url = "https://www.grainmart.in/news/covid-19-coronavirus-india-state-and-district-wise-tally/"
- r = requests.get(url)
- soup = BeautifulSoup(r.content,'html.parser')
- list states = [ ]
- string state_name = ""
- dictionary d = {}
- list state_arr = [ ]
- list district_arr = [ ]
- list state = [ ]
- list districts = [ ]
- list dis = [ ]
- int count = 0
- list district = [ ]
- geeky_file = open('geekyfile.txt', 'wt')

5.17 C:/Users/apoor/Downloads/COVID-19-Tracker-master/train.php File Reference

Variables

- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Training_advisories"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.17.1 Variable Documentation

5.17.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 115 of file train.php.

5.17.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 122 of file train.php.

5.17.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Training_advisories"
```

Definition at line 120 of file train.php.

5.17.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 130 of file train.php.

5.18 C:/Users/apoor/Downloads/COVID-19-Tracker-master/travel.php File Reference

Variables

- $conn = mysqli_connect("localhost", "root", "", "covid_19_database")
- if($conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Travel_advisories"
- $result = $conn->query($sql)
- if($result->num_rows > 0) else { echo "0 results"

5.18.1 Variable Documentation

5.18.1.1 $conn

```
$conn = mysqli_connect("localhost", "root", "", "covid_19_database")
```

Definition at line 115 of file travel.php.

5.18.1.2 $result

```
$result = $conn->query($sql)
```

Definition at line 122 of file travel.php.

5.18.1.3 $sql

```
if ( $conn->connect_error) $sql = "SELECT Date, Heading, Link FROM Travel_advisories"
```

Definition at line 120 of file travel.php.

5.18.1.4 else

```
if ( $result->num_rows > 0) else { echo "0 results"
```

Definition at line 130 of file travel.php.

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