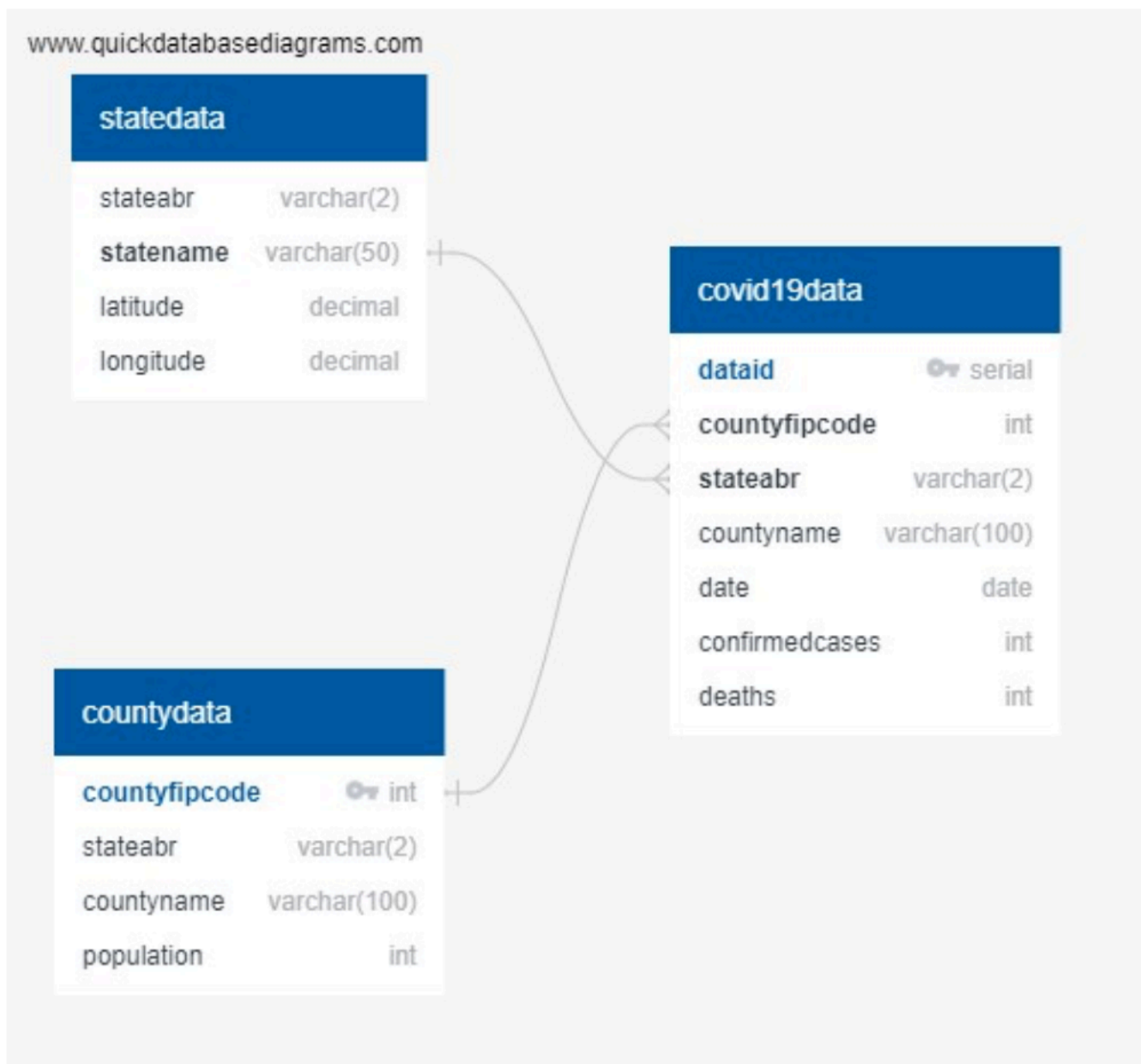


ETL Project Report  
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The Topic for our data integration project (ETL) was COVID-19. We pulled Data from three different sources. The first two sources came from <https://usafacts.org/visualizations/coronavirus-covid-19-spread-map/>. This is where all the data about COVID-19 was stored here we found two CSV file that gave us information on the confirmed cases in each county and state. These CSV files also had the population of every state. We used web scraping to collect the state name and abbreviation of each state this data was found on googles public docs here. [https://developers.google.com/public-data/docs/canonical/states\\_csv](https://developers.google.com/public-data/docs/canonical/states_csv). We then gathered the data into a Jupyter notebook file and use Pandas to clean and transform the data. Some columns had to be renamed to match the database schemas we created with quick database diagrams, And the tables e created in Postgres. We then used sqlalchemy to store this information in our database and tables into Postgres where the data was loaded.



## Diagram Documentation

### statedata

Field	Description	Type	Default	Other
stateabr		varchar(2)		
statename		varchar(50)		FK
latitude		decimal		
longitude		decimal		

### covid19data

Field	Description	Type	Default	Other
dataid		serial		PK
countyfipcode		int		FK
stateabr		varchar(2)		FK
countyname		varchar(100)		
date		date		
confirmedcases		int		
deaths		int		

### countydata

Field	Description	Type	Default	Other
countyfipcode		int		PK
stateabr		varchar(2)		
countyname		varchar(100)		
population		int		