

Low Level Design (LLD)

Healthcare Data Analysis

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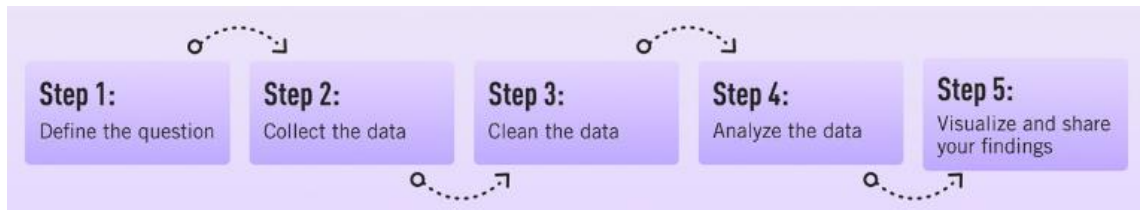
Problem Statement

- Health is real wealth in the pandemic time we all realized the brute effects of covid-19 on all irrespective of any status. You are required to analyse this health and medical data for better future preparation.
- Find key metrics and factors and show the meaningful relationships between attributes.
- Do your own research and come up with your findings.

Scope

Low Level Design (LLD) is a component-level design process that follows a step-by-step refinement process. This process can be used for designing data structures, required software architecture, source code, and performance algorithms. Overall, the data organization may be defined during the requirement analysis and then refined during the data design work. This study demonstrates the how different analysis help out to make better business decisions and help analyse the covid-19 cases country wise, which can be led to better decision making.

+ Architecture



Step 1 (Define the Questions):

Define the question, means understand the business goal, understand the requirements as well as understand the data.

Step 2 (Collect the data):

Collect the data based on the requirements.

Step 3 (Analyse the data):

Based on the data, you need to analyse the data. But before analyse you need to pre-processed the data.

Step 4 (Visualize & Share Your Findings):

Create the multiple visualization graphs or plots to analyse the data and then share to your clients or stakeholders.

+ Data Descriptions

There are 6 files are there, that's are mention below:

country_wise_latest.csv file:

Country/Region:	mention the countries & regions.
Confirmed:	mention the total confirmed cases.
Deaths:	mention the total deaths
Recovered:	Total recovered
Active:	Total active cases till now (till a particular date);

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	active = confirmed - deaths - recovered
New Cases:	new cases add in a day
New Recovered:	new recovered in a day
Deaths / 100 Cases:	death ration out of 100 cases
Deaths / 100 Recovered:	recovered ration out of 100 cases.
Confirmed last week:	confirmed cases in last week

covid_19_clean_complete.csv file:

Province/State:	mention the states
Country/Region:	mention the countries & regions.
Lat:	mention the latitude.
Lon:	mention the longitude.
Date:	Day wise date is present.
confirmed:	mention the total confirmed case in a day. (e.g.: in day_1 if the confirmed case 10, and day_2 confirmed case 80, then in day_2 it increases by 70; means--- in day_2 total confirmed case is 70)
deaths:	mention the deaths, (e.g.: in day_1 if the death is 10, and day_2 death is 80, then in day_2 death increases by 70; means-- in day_2 total death is 70)
recovered:	how many people are recovered, total recovered
active:	total active case after death and recovered
WHO Region:	mention the WHO region.

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day_wise.csv file:

Date:	Day wise date is present,
confirmed:	mention the total confirmed case in a day, (e.g.: in day_1 if the confirmed case 10, and day_2 confirmed case 80, then in day_2 it increases by 70; means--- in day_2 total confirmed case is 70),
deaths:	mention the deaths, (e.g.: in day_1 if the death is 10, and day_2 death is 80, then in day_2 death increases by 70; means-- in day_2 total death is 70),
recovered:	how many people are recovered, total recovered,
active:	total active case after death and recovered,
new cases:	no. of people affected in a day or the no. of cases in a day,
new deaths:	no. of deaths in a day,
new recovered:	no. of recovered cases in a day,
deaths/100 cases:	ratio of deaths out of 100 cases,
recovered/100 cases:	ratio of recover out of 100 cases.
Deaths/100 recovered:	ratio of deaths out of 100 recovered.

usa_country_wise.csv file:

UID:
ios2:
ios3:
code3:
FIPS:
Admin2:

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Province/State:	mention the states in us
Country/Region:	mention the country name, i.e., us
Lat:	mention the latitude
Long_:	mention the longitude
Combined Key:	

worldometer_data.csv file:

Country/Region:	mention the country names
Continent:	mention the continent
Population:	mention the total population in a country
TotalCases:	mention the Total Cases
NewCases:	mention the newly cases
TotalDeaths:	total deaths
NewDeaths:	newly deaths
TotalRecovered:	total recovered
NewRecovered:	newly recovered
ActiveCases:	total active cases till a particular date after recovery and deaths
Serious, Critical:	no. of people who are in serious a critical condition
Tot Cases/1M pop:	total cases out of 1 million population
Deaths/1M pop:	total deaths out of 1 million of population
TotalTests:	Total covid test
Tests/1M pop:	covid test out of 1 million of populations
WHO Region:	mention the WHO regions.

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full_grouped.csv file:

Date:	Day wise date is present.
country/Region:	mention the countries or regions.
confirmed:	mention the total confirmed case in a day. (e.g.: in day_1 if the confirmed case 10, and day_2 confirmed case 80, then in day_2 it increases by 70; means--- in day_2 total confirmed case is 70)
deaths:	mention the deaths, (e.g.: in day_1 if the death is 10, and day_2 death is 80, then in day_2 death increases by 70; means-- in day_2 total death is 70)
recovered:	how many people are recovered, total recovered
active:	total active case after death and recovered
new cases:	no. of people affected in a day or the no. of cases in a day
new deaths:	no. of deaths in a day
new recovered:	no. of recovered cases in a day
WHO Region:	mention the WHO region

----- Thank You -----