**MS Excel - Project**

As an Excel expert, you need to perform the following tasks with the given dataset, which consists of the demographic details of various countries.

1. Create the name range for birth rate and income group.
2. Calculate various statistical details:
   1. Mean of birth rate and internet users.
   2. Median of birth rate and internet users.
   3. Variance of birth rate and internet users (consider both the population and sample variances).
   4. Standard deviation of birth rate and internet users (consider both the population and sample standard deviations).
   5. IQR of birth rate and internet users.
3. Create filters on country and income groups:
   1. Use the country filter and check which income group India falls under.
   2. Filter all the countries of the same income group as India and take the count of countries.
4. Create the pivot table and add country, income group, and internet users in the same Excel sheet

**MS Excel Features - Assignment 1**

You are hired as an Excel expert by the Government of India to investigate Top 500 Indian cities’ statistical indicators. You have been supplied with a dataset and you need to visually present the answers for the following:

* Which states have the highest population count?
* Compare the literacy rates across various states.
* Which are the top 10 cities with a high literacy rate?
* Explore the sex ratio in different states.
* Percentage of total number of graduates against the total population of the state.
* Which states have the greatest number of cities ranked in the ‘Top 500’ cities of the world?
* Find some more meaningful insights from the data.

**MS Excel Features - Assignment 2**

You are hired as an Excel expert by a restaurant to investigate some of the critical indicators. You have been supplied with a dataset and you need to visually present answers for the following:

* Calculate the total amount for each transaction (total bill amount + tips).
* Create a pivot table and show the data based on the total amount spent by specific gender groups in a day.
* After finding the total amount spent by specific gender groups in a day, find out which among them is the highest and on what time of the day is the highest amount spent?
* Are smokers giving more tips than non-smokers?
* On an average, how many people are present in one sitting? (Average size of all the transactions)