Non-coding exercise 1:

Consider the above use case.

Questions:

1. Suggest how you will make this script run faster if there are 100 cities

Run scripts in parallel

By using testing framework we can split test case and run

2. How will you make this completely automated without the human in the loop so

that new records are sent to the concerned people as soon as they are extracted.

By configuring jenkins schedule-jobs once job complete if new record extracted and that can directly sent to concerned people by email

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Non-coding exercise 2:

Consider a system integration use case where data from one system needs to be added to

Another system, both websites.

You break up the process into two parts, extract and create. Both needs to happen on a

Time based manner on Jenkins so that new records in the first system are extracted as soon

as they are available and created in the target system.

If there are new records to extract, they are extracted as json and saved. After that these

json are used to create new records in the target system.

Questions:

1. Please explain how you will design a Jenkins infrastructure to achieve this process.

Setup Jenkins on machine/server>create new project to extract data >configure project>schedule-jobs

this will trigger build as per schedule time and if there are any new records found those record will extracted and save in json file.

Json file will be available on system/server.

Create another project for creating data >configure project>schedule-jobs

Schedule-jobs run as per schedule time this job will be scheduled after the first job this job basically check the file.

If on the given path file found that file will be used to create new records.

2. Consider that this needs to happen every 15 minutes so how will you make the

System as efficient as possible?

Minimize the number of builds on the master node

Do not keep too much build history

Clear old Jenkins data