# List of tasks For Creative Canada server

I thought now we’ve made some headway it would be useful to set out a roadmap for the project. We can of course discuss and modify as the project proceeds. Let’s discuss at our meeting.

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# Updating the Windows Server and reconstructing the original data and charts

First task is simply to get back to where we were (that is to say where I was) in 2018, by reproducing the original charts and data that are used in the report

## Understand how the data tables are constructed

We should work through together how the upload process functions

A critical part of this is the ‘Create Fact Files’ package and we should follow that through step by step to see what it does. In particular we need to see how the ‘unpivot’ function works and how we use the unpivoted tables.

For this purpose it will be useful to create a spreadsheet that retrieves data from the CI Fact table so we can study the effect of each step in Excel, which is easier than in SSMS.

## Understand how the views work

The key views are the

## Reproduce the spreadsheet ‘Data source for Charts and Figures’

This is a joint task and I will be trying to do that while the other work is proceeding. In a ‘normal’ work environment we would use Github for this purpose. I would create a ‘branch’ from Master and make the changes I found necessary while at the same time you would be carrying out the tasks below. Then at an agreed point we would ‘merge’ the two branches. However this is a bit too complex since there are only two of us, so I suggest that you work on the remote server, while I work on my local machine. I will not ‘push’ my changes to Github but will just make a note of them – then I’ll send you notes on what I’ve found. Once we’re clear what is to be done, you can update the remote (Windows Server) repository and we can push it to Github.

## Understand how we use the Census data to produce a ‘Trident’

This is conceptually perhaps the most complex aspect of the report, although it only covers one page. However it will be especially important when (and if) we conduct a complete review of the choice of NAICS and NOCS codes, which is a topic I’m hoping we can obtain research money to do.

## Procedural improvements

There are some oddities – for example, when the ROLAP task is run for the first time, it fails because the ROLAP tables have not yet been created. Can you suggest a fix for this?

## General tidy up of the name space

1. Note: these are not small operations! Every time a name is changed, it has knock-on consequences. Each Change should be fully tested all the way through. Therefore, we have to devise a set of tests, all the way through to the final excel spreadsheet
2. The folder called ‘OLTP setup scripts’ should just be called ‘SCRIPTS’
3. Rename the database called ‘CANADA-CI’ to ‘CANADA-CI-OLTP’
4. Let’s try to use consistent names for destinations eg ‘IOICC Source OLTP Table’

# Update the data

1. Update EMP\_NAICS4 (LFS employment) spreadsheet
   1. Download data
   2. Clean the spreadsheet to make it look just like the old one, but with extra years
   3. Extra years needed for the destination table
2. Update cansim-3790030 (Nominal GDP) spreadsheet
   1. Download data
   2. Clean the spreadsheet to make it look just like the old one, but with extra years
   3. Extra years needed for the destination table?
   4. Try to do away with the data conversion – it is a relic from an earlier time
3. Same for cansim-3790030-real
4. Update Productivity and hours spreadsheet
   1. (Same as abc above)
5. NOTE: no change needed for Census since it is for a single year, HOWEVER, I think the census folks have made some changes because they detected errors. One of our jobs will be to check the new data against the old data and see what its effects have been.

## Produce an update of the report

We’ll now move over to the report (in Word).

You’ll need to update all the charts. The text then needs to be read carefully to see what needs to change. We may first want to run it past the clients to see if the new data provokes them to rethink any part of the narrative.

## Produce a PEI report

We now want to produce a similar report for PEI

First produce all the charts

Then produce a word document with the same sections in it, but only put the charts in (perhaps with very minimal commentary)

Then we will send it to the client and see what he has to say about the narrative, and whether he wants further commentary or charts

## Graphic design

The graphs and charts could be a lot nicer and in particular could be made dynamic. So we want to start getting the data into Power BI to see if we can create some interesting dashboards. If you want to play around with PowerBI while the other work is going on, feel free. In fact we have a subscription so you should be able to create your own PowerBI workbooks.

Another option, qualitatively more complex, is to see if we can use the opensource code from the ‘Our World In Data’ project to produce a dynamic website.

Depends how lucky we feel!