University of Ottawa

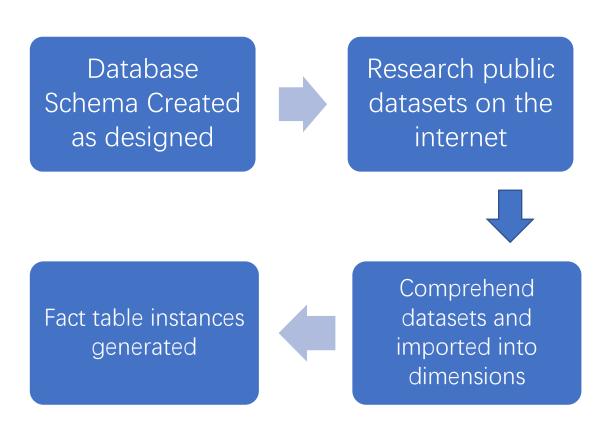
School of Electrical Engineering and Computer Science CSI4142 Fundamentals of Data Science

Project Phase 2: Physical Design and Data Staging

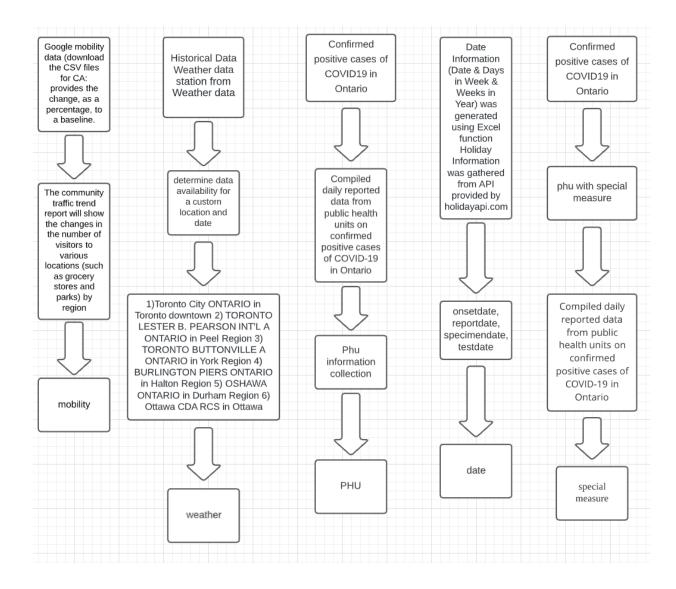
Student Name: Xia (Cynthia) Sheng

Student ID: 300091655 Student Name: Xinyu Ji Student ID: 300061354

Student name: Heng (Scott) Zhang Student number: 300067988



high-level data staging plan



Data quality issues	Who solved		Solutions	
Missing data in weather	Xia	(Cynthia)	All missing	
dimension	Sheng		'snow_on_ground' and	
			'total_recipitation' are	
			filled with 0.	
			all missing	
			temperature are filled	
			with mean value of	
			the day before and	
			after of the missing	
			date.	
Missing Data in Fact	Heng	(Scott)	1. Some data may not have	
Table and Positive Case	Zhang		specimen date or test date, in	
			case of this circumstance, we	
			use report date as their	
			specimen data/test date	
			2. Some cases have no age	
			info. available, we use 0	
			during data staging	

	3. Gender may have 3 types of			
	value: M for Male, F for			
	Female, U for Unknown			

CSI4142 Physical Design and Data Staging - Project Planning

Deliverable	Team member(s) responsible	Expected completion date	Actual completion date	time (hours) to	Actual time (hours) to complete
Create database instance and tables	Heng (Scott) Zhang ,Xia (Cynthia) Sheng,	2021-02-19	2021-02-18	2	1h45min
Staging of Date dimension	Heng (Scott) Zhang	2021-02-20	2021-02-19	0.5	0.5
Staging of Patient dimension	Heng (Scott) Zhang	2021-02-20	2021-02-19	1	45min
Staging of PHU dimension	Xinyu Ji	2021-02-20	2021-02-19	0.5	0.5
Staging of Mobility dimension	Heng (Scott) Zhang	2021-02-20	2021-02-19	1	0.5
Staging of Weather dimension	Xia (Cynthia) Sheng	2021-02-21	2021-02-19	1	45min
Map PHU, Mobility and Weather dimensions	Heng (Scott) Zhang	2021-02-25	2021-02-19	2	1h45min
Staging of Special Measures dimension	Xinyu Ji	2021-02-20	2021-02-19	0.5	0.5
Surrogate key pipeline – including role- playing dates	Xia (Cynthia) Sheng	2021-02-28	2021-02-19	2	1h45min
Staging of fact table – including FKs and measures	Heng (Scott) Zhang ,Xia (Cynthia) Sheng	2021-02-28	2021-02-19	2	1h45min
Data quality handling and	Xinyu Ji	2021-03-01	2021-02-19	1	1