

LIFECYCLE

1. **What are the names of the stages of the data lifecycle?**

Data generation, Collection, Storage, Visualisation, Analysis, Intelligence

2. **What activities would you need to do before undertaking this project? Think about where the data came from.**

The data for this project had already been generated, collected and stored. So if I were to start this project from scratch, I would ask Dental Pharma to collect their data via surveys for example, then store in a reliable hard drive or cloud storage to then be extracted from for the tasks I have already performed.

3. **What would you need to do if the data changed?**

Assess the impact, understand what changed, possibly reschedule the deadline depending on these factors, validate the new data then make insights on possible new trends. For example, I have removed data from May - July 2018 on some charts in the Tableau project because the data for these months do not show any kind of trend due to lack of data points.

4. **Which aspects of the data analysis lifecycle are you primarily involved with in this project?**

Mainly visualisation and analysis. The visualisation side comes from the dashboard and charts I have created. The analysis side comes from presenting the findings from this project.

5. **How does this project fit into a broader data lifecycle?**

It fits into the data lifecycle by providing the glue between raw data and intelligence. Visualisations and insights are gained from the raw data, which then turns it into intelligence for Dental Pharma to act upon.

REQUIREMENTS

1. **Summarize the process you used from the business requirements to a clear design for your dashboard.**

I made a note of the requirements given to me and made sure I executed them by creating a dashboard blueprint using a dashboard mockup that met the standards I needed to hit. All I needed to do from there was create the dashboard similar to the mockup design and was able to be filtered by the user requirements in the dashboard blueprint.

2. **How would you make sure this design actually met the needs of the business?**

I made a note of the requirements given to me and made sure I executed them by testing the dashboard with lots of trial and error to come up with, what I feel to be the best solution to these requirements. One particular part of the dashboard I had to improvise on was the alerts requirement. Instead of making an alert (which is only available on the paid Tableau platform) I created a calculated field to highlight any data over the threshold so that this can be easily seen by all managers. Once this is done I would make sure to get approval from the client.

3. **What other techniques could you use to make the design clearer?**

I could have possibly explored the formatting features more to create a consistent layout (aside from the default colours). I also changed the date range for some of the charts because in some months there was only around 5-10 data points to represent a whole month, which I believe is not reliable data for the timeframe.

	A		B		C	D		E		F		G		H		I		J	
1	Project ID	Project Type			Country	Phase		Start Date		Actual_Duration		Actual_Cost		Planned_Duration		Planned_Cost		Var_Deliverables	
483	60	IT - CRM Implementation			Poland	Testing		22/03/2018		40		3332		43.5		2800		-0.12	
484	32	Marketing - Launch of new product			Turkey	Phase 2 - Initiation		23/03/2018		25.5		127000		23		100000		-0.05	
485	66	IT - CRM Implementation			Slovenia	Deployment		23/03/2018		24		0		22		0		-0.07	
486	62	IT - CRM Implementation			Slovakia	Deployment		24/03/2018		24.5		0		19.5		0		-0.11	
487	28	Marketing - Launch of new product			Russia	Phase 2 - Initiation		25/03/2018		57		204000		46		200000		-0.12	
488	79	IT - CRM Implementation			Sweden	Deployment		25/03/2018		25		0		19		0		-0.01	
489	75	IT - CRM Implementation			Russia	Testing		26/03/2018		28.5		5320		30.5		5600		-0.12	
490	73	IT - CRM Implementation			Portugal	Testing		27/03/2018		28.5		3360		41		2800		-0.03	
491	81	IT - CRM Implementation			Norway	Initiation		02/04/2018		10		840		10		700		-0.11	
492	48	Marketing - Launch of new product			Slovenia	Phase 4 - Manufacturing		03/04/2018		39.5		990000		36		900000		-0.13	
493	55	IT - CRM Implementation			Luxembourg	Initiation		03/04/2018		11.5		847		11.5		700		0	
494	48	Marketing - Launch of new product			Slovenia	Phase 3 - Implementation		04/04/2018		49.5		330000		45		300000		-0.13	
495	41	Marketing - Launch of new product			Slovakia	Phase 4 - Manufacturing		06/04/2018		42.5		1071000		36		900000		-0.11	
496	41	Marketing - Launch of new product			Slovakia	Phase 3 - Implementation		07/04/2018		53		357000		45		300000		-0.11	
497	23	Marketing - Launch of new product			Switzerland	Phase 4 - Manufacturing		08/04/2018		44		1098000		36		900000		-0.06	
498	23	Marketing - Launch of new product			Switzerland	Phase 3 - Implementation		10/04/2018		55		366000		45		300000		-0.06	
499	51	Marketing - Launch of new product			Sweden	Phase 4 - Manufacturing		11/04/2018		46		1044000		36		900000		-0.13	
500	51	Marketing - Launch of new product			Sweden	Phase 3 - Implementation		12/04/2018		57.5		348000		45		300000		-0.13	
501	71	IT - CRM Implementation			Turkey	Testing		13/04/2018		20.5		2604		7.5		2800		-0.14	
502	74	IT - CRM Implementation			Ukraine	Testing		14/04/2018		20.5		2856		19		2800		0	
503	61	IT - CRM Implementation			Czech Repu	Testing		15/04/2018		36		6160		22		5600		-0.09	
504	48	Marketing - Launch of new product			Slovenia	Phase 2 - Initiation		20/04/2018		50.5		220000		46		200000		-0.13	
505	75	IT - CRM Implementation			Russia	Initiation		24/04/2018		9		665		9		700		-0.12	
506	41	Marketing - Launch of new product			Slovakia	Phase 2 - Initiation		25/04/2018		54		238000		46		200000		-0.11	
507	73	IT - CRM Implementation			Portugal	Initiation		25/04/2018		9		420		9		350		-0.03	
508	23	Marketing - Launch of new product			Switzerland	Phase 2 - Initiation		28/04/2018		56.5		244000		46		200000		-0.06	
509	51	Marketing - Launch of new product			Sweden	Phase 2 - Initiation		01/05/2018		58.5		232000		46		200000		-0.13	
510	60	IT - CRM Implementation			Poland	Initiation		02/05/2018		12.5		416.5		12.5		350		-0.12	
511	71	IT - CRM Implementation			Turkey	Initiation		04/05/2018		6.5		325.5		6.5		350		-0.14	
512	74	IT - CRM Implementation			Ukraine	Initiation		04/05/2018		6.5		357		6.5		350		0	
513	82	IT - CRM Implementation			Switzerland	Testing		16/05/2018		34.5		5656		30		5600		-0.04	
514	61	IT - CRM Implementation			Czech Repu	Initiation		22/05/2018		11		770		11		700		-0.09	
515	66	IT - CRM Implementation			Slovenia	Testing		28/05/2018		39		7168		6.5		5600		-0.07	
516	62	IT - CRM Implementation			Slovakia	Testing		31/05/2018		40		7112		10.5		5600		-0.11	
517	79	IT - CRM Implementation			Sweden	Testing		02/06/2018		40.5		6216		2.5		5600		-0.01	
518	82	IT - CRM Implementation			Switzerland	Initiation		20/06/2018		10.5		707		10.5		700		-0.04	
519	66	IT - CRM Implementation			Slovenia	Initiation		07/07/2018		12		896		12		700		-0.07	
520	62	IT - CRM Implementation			Slovakia	Initiation		11/07/2018		12.5		889		12.5		700		-0.11	
521	79	IT - CRM Implementation			Sweden	Initiation		13/07/2018		12.5		777		12.5		700		-0.01	

	A		B		C	D		E		F		G		H		I		J	
1	Project ID	Project Type			Country	Phase		Start Date		Actual_Duration		Actual_Cost		Planned_Duration		Planned_Cost		Var_Deliverables	
424	51	Marketing - Launch of new product			Sweden	Phase 1 - Planning		12/02/2018		77.5		116000		61		100000		-0.13	
429	79	IT - CRM Implementation			Sweden	Preparation		12/02/2018		151		17871		129		16100		-0.01	
452	79	IT - CRM Implementation			Sweden	Development		25/02/2018		109.5		23310		97.5		21000		-0.01	
470	79	IT - CRM Implementation			Sweden	Post-deployment		09/03/2018		10		3108		10		2800		-0.01	
488	79	IT - CRM Implementation			Sweden	Deployment		25/03/2018		25		0		19		0		-0.01	
499	51	Marketing - Launch of new product			Sweden	Phase 4 - Manufacturing		11/04/2018		46		1044000		36		900000		-0.13	
500	51	Marketing - Launch of new product			Sweden	Phase 3 - Implementation		12/04/2018		57.5		348000		45		300000		-0.13	
509	51	Marketing - Launch of new product			Sweden	Phase 2 - Initiation		01/05/2018		58.5		232000		46		200000		-0.13	
517	79	IT - CRM Implementation			Sweden	Testing		02/06/2018		40.5		6216		2.5		5600		-0.01	
521	79	IT - CRM Implementation			Sweden	Initiation		13/07/2018		12.5		777		12.5		700		-0.01	