

Experiment 1 - Create table									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	200779	13926	2989	537	38000	39000	4800	3200	Average Time (m)
time2	204746	13848	3039	484	41300	29700	4700	2600	203678
time3	200687	14068	2860	532	41300	16800	4700	2600	14061.33333
time4	213385	15318	3051	523	42700	13300	4100	3600	3022.333333
time5	205509	14190	3039	528	37500	13900	4300	2500	527.6666667
Experiment 2 - Projection Differences Between Databases Query 18									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	108941	4176	294	332	1100	400	300	300	Average Time (m)
time2	108635	3899	274	327	1300	400	300	200	107763
time3	107234	4088	318	298	1300	300	200	400	4854.333333
time4	107420	4418	285	296	1000	300	300	200	284.3333333
time5	105983	3456	259	314	800	300	300	200	313.3333333
Experiment 2 - Projection Differences Between Databases Query 19									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	278993	5508	831	416	16600	6200	1100	1000	Average Time (m)
time2	280684	5338	807	416	34900	5000	2000	1100	278983
time3	293767	5703	900	410	23600	5200	2200	1000	5464
time4	273633	5546	840	411	106000	5900	2300	1100	826
time5	277272	3456	782	306	19100	5600	1800	1100	412.3333333
Experiment 3 Joins Query 9									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	369152	6414	2681	465	3500	1300	1400	1000	Average Time (m)
time2	369703	6300	2176	448	3600	1300	1000	1000	367860.3333
time3	382650	7043	2701	261	4300	1300	1000	1100	6425.333333
time4	361742	5834	2361	503	3600	1400	1100	1000	2581
time5	364726	6562	2918	465	3900	1300	1000	1000	459.3333333
Experiment 3 Joins Query 10									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	89903	2279	263	255	10600	1400	1200	1300	Average Time (m)
time2	88171	2685	269	324	10900	1300	1000	1000	88589.33333
time3	87694	2619	252	256	42600	1300	1100	1000	2719
time4	90504	3227	278	244	13800	1400	1300	1400	263.6666667
time5	86205	2853	259	274	9500	1200	1200	1200	261.6666667
Experiment 3 Joins Query 11									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	94798	2621	255	276	3700	1300	1000	1100	Average Time (m)
time2	94504	2969	237	241	3100	1400	1300	900	94518.33333
time3	94275	2368	239	244	3400	1200	1100	1100	2817
time4	94776	3223	273	281	2800	1300	1000	1000	243.66667
time5	94148	2861	206	211	2800	1200	1000	1100	253.666667
Experiment 4 Runtime Query 11									
	PsqL 5M/500k	PsqL 500k/100k	PsqL 100k/10k	PsqL 10k/1	BQ 5M/500k	BQ 500k/100k	BQ 100k/10k	BQ 10k/1	
time1	93731	4181	344	431	3800	1000	1100	1200	Average Time (m)
time2	93646	4117	204	295	3600	1200	1100	1300	93634
time3	93789	4200	210	300	3800	1600	1500	1400	4048.666667
time4	92911	3848	261	294	3100	1300	1300	1400	231.3333333
time5	93525	3178	223	204	3200	1100	1200	1200	296.3333333
Experiment 4 Runtime Query 15									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	88790	4156	395	437	6300	1700	1200	1000	Average Time (m)
time2	87854	3717	404	402	5600	1600	1200	1100	87495.33333
time3	87323	3830	476	379	5000	1500	1300	1000	3748.333333
time4	87309	3698	379	399	4300	1400	1400	1000	394.3333
time5	85210	3338	384	418	4000	1500	1400	1200	406.33333
Experiment 4 Runtime Query 19									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	282377	5057	840	369	18400	5300	2300	1100	Average Time (m)
time2	283390	4951	804	480	17300	4600	2900	1100	280770.6667
time3	276203	4804	867	382	15900	4900	2500	1000	4859
time4	292874	4822	787	388	16700	6100	2200	900	810.33333
time5	276545	4393	775	454	16100	5000	2000	1300	408
Experiment 5 Math query 20									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	571	382	304	304	600	200	200	200	Average Time (m)
time2	535	264	222	294	300	400	400	200	551.3333333
time3	498	395	225	296	300	200	200	8500	388
time4	548	387	205	386	400	200	200	200	217.3333333
time5	580	402	263	294	300	200	200	200	298
Experiment 5 math query 21									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	88647	4402	392	352	500	300	300	200	Average Time (m)
time2	88634	4660	459	360	500	200	400	200	88165
time3	88336	4927	418	357	1500	300	200	400	4467.666667
time4	87525	3870	388	407	600	300	200	200	416
time5	85202	4341	438	463	500	300	200	300	374.666667
Experiment 5 math query 22									
	Postgres 5M	Postgres 500k	Postgres 100k	Postgres 10k	Big Query 5M	Big Query 500k	Big Query 100k	Big Query 10k	
time1	88602	4240	408	494	800	300	200	200	Average Time (m)
time2	88429	4547	460	393	700	300	200	200	87292.66667
time3	86916	4692	600	433	400	400	200	200	4305
time4	86500	3611	415	384	400	300	200	300	404.33333
time5	85162	4128	387	386	600	300	200	200	404.3333333

Create Table Experiment

Average Time (ms)

Postgres 5M

Postgres 500k

Postgres 100k

Postgres 10k

Big Query 5M

Big Query 500k

Big Query 100k

Big Query 10k

Experiment 2, Postgres Only, Query 18

Average Time (ms)

Postgres 5M

Postgres 500k

Postgres 100k

Postgres 10k

Experiment 2, BigQuery Only, Query 18

Average Time (ms)

Big Query 5M

Big Query 500k

Big Query 100k

Big Query 10k

Experiment 2 (5M omitted) Query 19

Average Time (ms)

Postgres 500k

Postgres 100k

Postgres 10k

Big Query 500k

Big Query 100k

Big Query 10k

Experiment 3, Query 9 (No 5M)

Average Time (ms)

Postgres 100k

Postgres 10k

Postgres 500k

Big Query 100k

Big Query 10k

Big Query 500k

Experiment 3, Query 11

Average Time (ms)

Postgres 100k

Postgres 10k

Postgres 500k

Big Query 100k

Big Query 10k

Big Query 500k

