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PostgreSql Replication vs Citus Data

What is PostgreSql Replication?

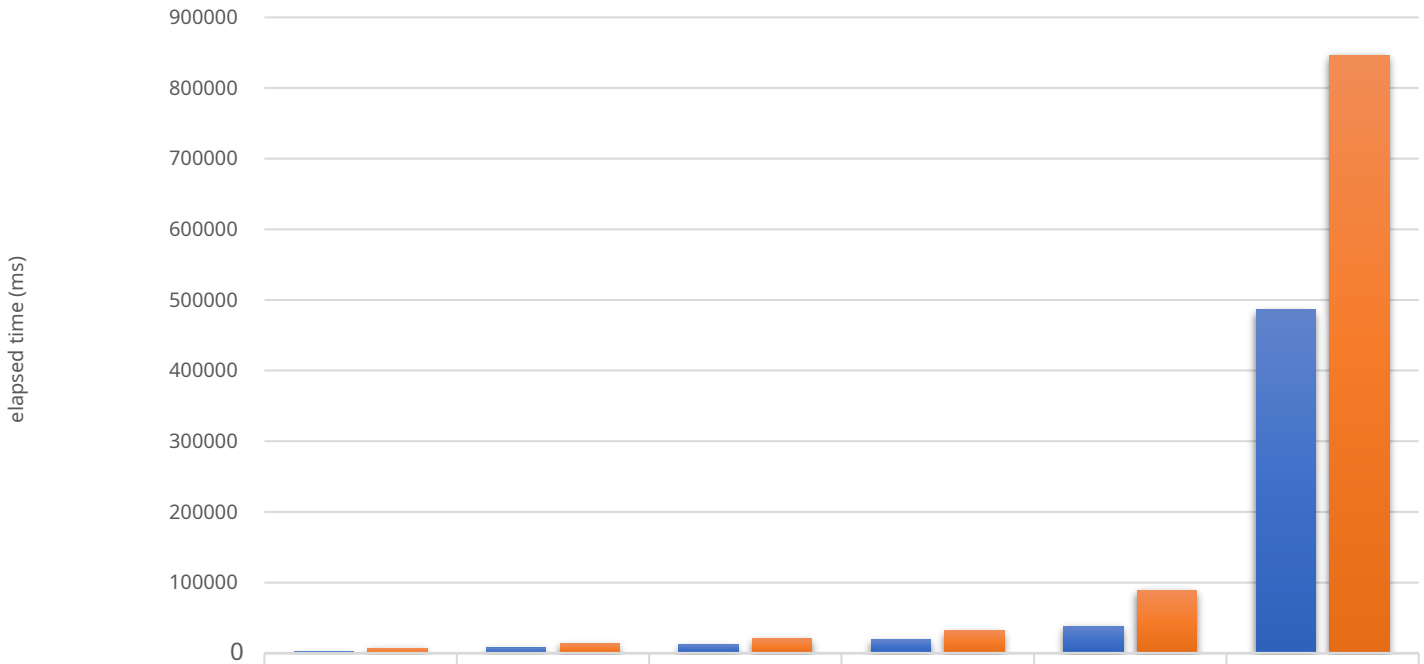
With replication, a queryable copy of the live database is created. By running the queries for reporting purposes on this read-only server, the load on the master server is reduced.

What is Citus Data?

Citus is an open source extension of Postgres that distributes data and queries among multiple nodes in a cluster.

Features	Citus Data	PostgreSql Replication
Open Source	**yes**	**yes**
Master-Slave Architecture	**no**	**yes**
Speed for Insert (1 row)	**36,071 ms**	**30,640 ms**
Speed for Select (1 row)	**2,098 ms**	**11,757 ms**
Installed with	**docker**	**docker**
Establishment	**2010**	**2006**
Last Version	**10.1**	**13**
primary database model	**Relational DBMS**	**Relational DBMS**
Secondary database models	**document store**	**document store Spatial DBMS**
Website	**www.citusdata.com**	**www.postgresql.org**
technical documentation	**docs.citusdata.com/en/v10.1**	**postgresql.org/docs/replication**
server operating systems	**Linux**	**Linux, Windows, Mac OS X**
data scheme	**yes**	**yes**

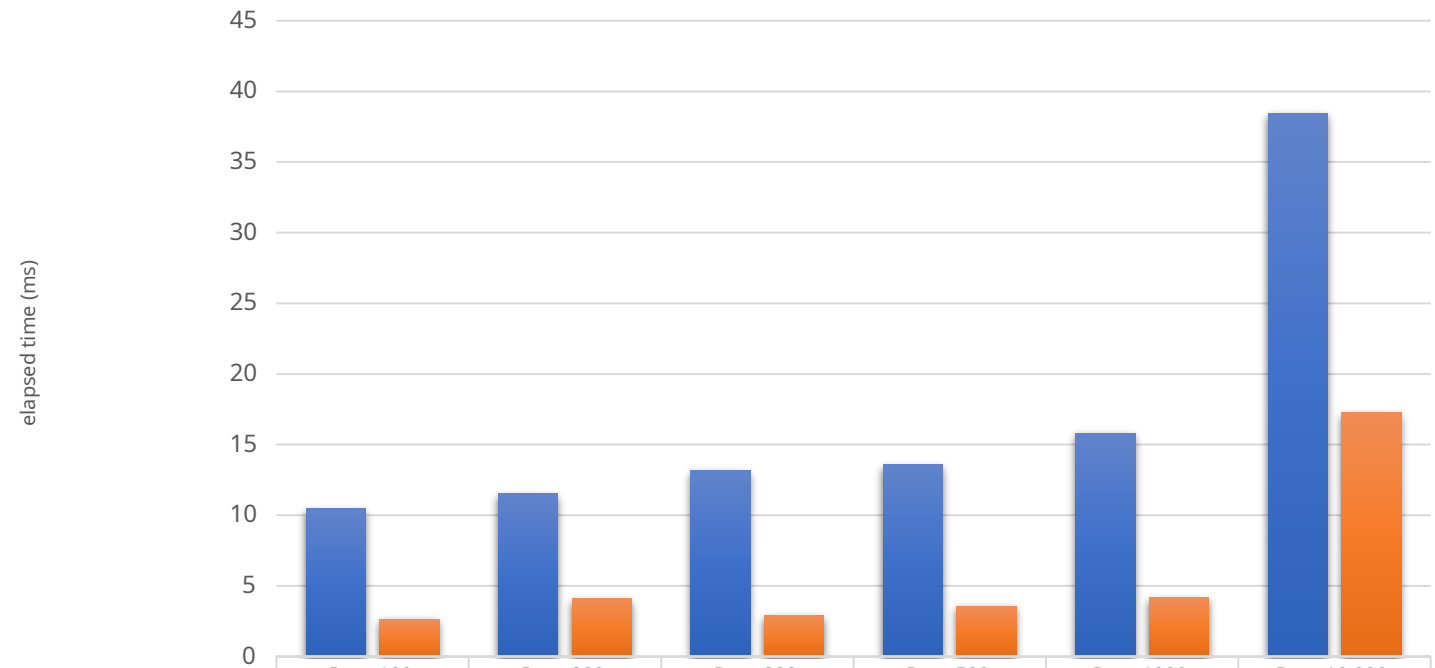
Insert Command Comparison



	Data 100	Data 200	Data 300	Data 500	Data 1000	Data 10,000
Citus Data	2430.645	7368.086	12017.34	19189,663	37876,726	485859.117
PostgreSql Replication	6787,306	13379.597	20167.512	32352.192	89392,087	846300,795

Data Count

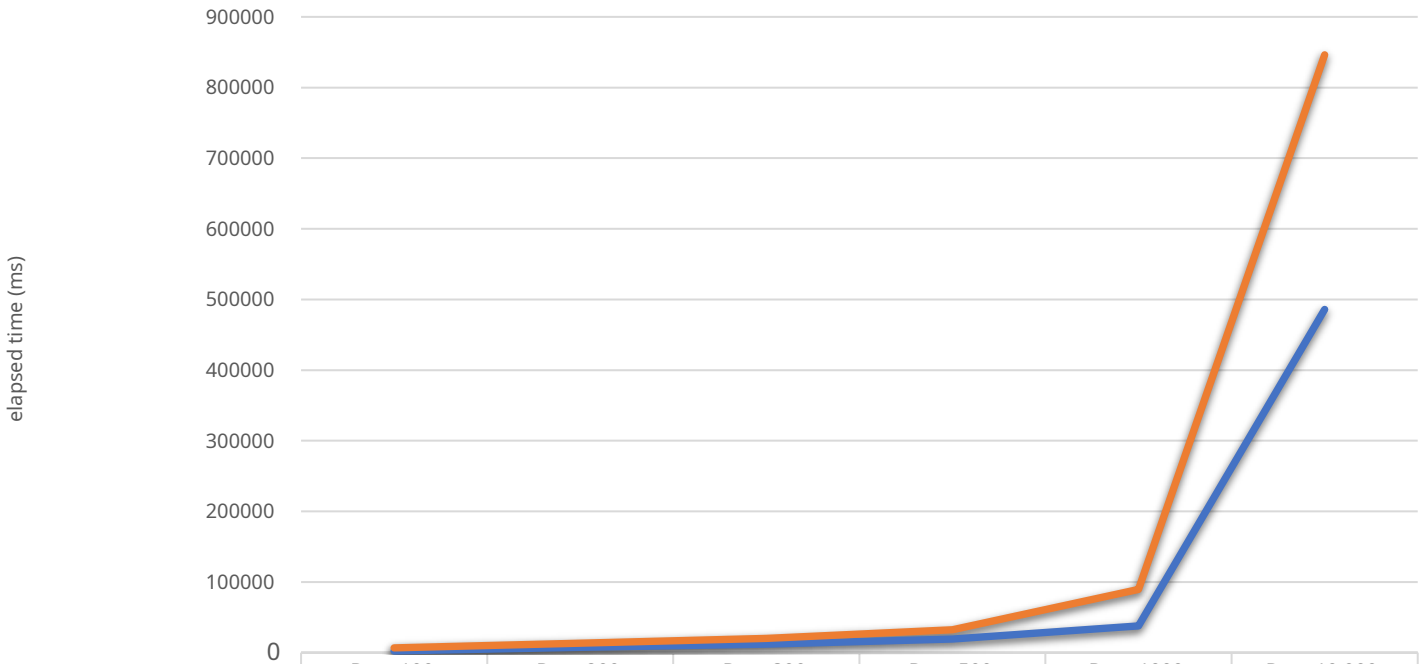
Select Command Comparison



	Data 100	Data 200	Data 300	Data 500	Data 1000	Data 10,000
Citus Data	10,461	11,518	13,144	13,571	15,807	38,435
PostgreSql Replication	2,632	4,083	2.89	3,564	4.157	17,273

Data Count

Insert Command Comparison



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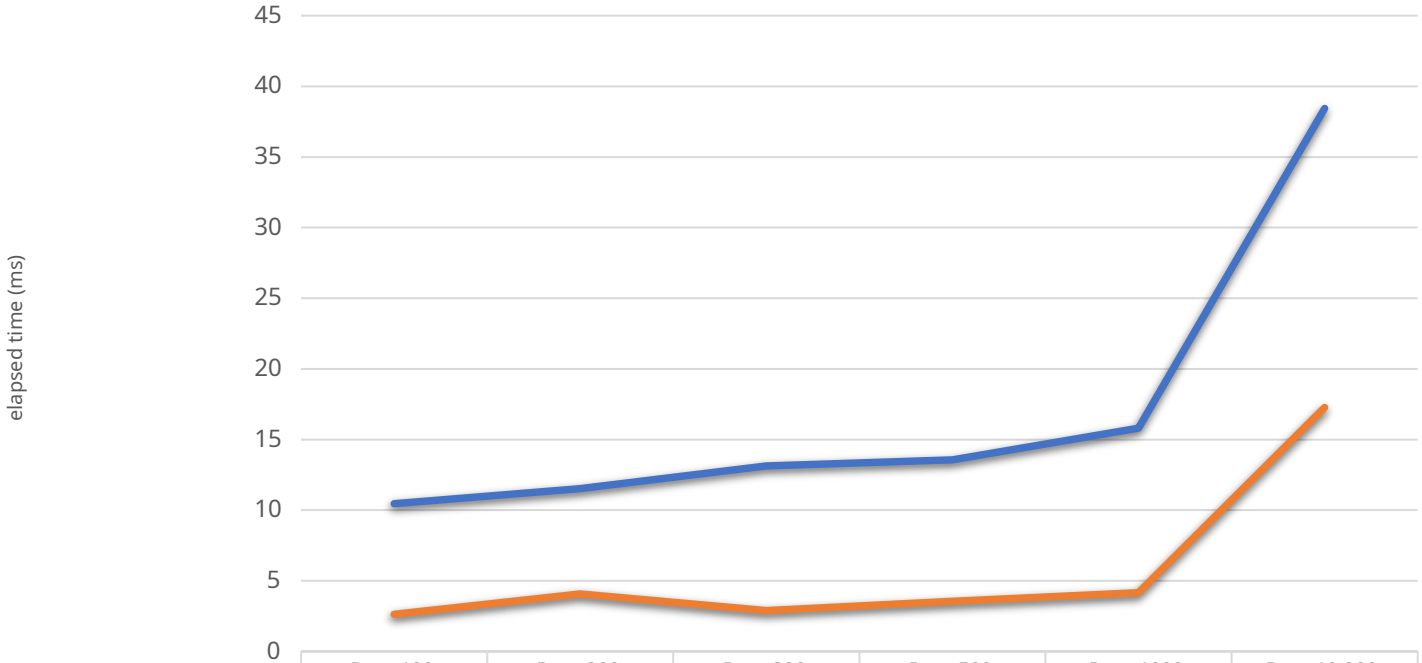

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