




Area	Feature	 snowflake	 amazon REDSHIFT	 BigQuery
Functionality	SQL support	Yes, full ANSI SQL support	Yes, PostgreSQL dialect	Yes, limited ANSI SQL
	Analytical (Window) Functions	Yes	Yes	Yes
	Connectivity	ODBC, JDBC	Native PostgreSQL, ODBC, JDBC	ODBC, JDBC, API
	Semi-structured data support	Yes JSON, XML	Yes JSON	Yes JSON, XML, Parquet, Avro
	WHERE clause tuning	PARTITION BY clause	SORTKEY on CREATE TABLE level	Only based on Datetime/timestamp attributes
	JOINS tuning	No	DISTKEY on CREATE TABLE level	no
	User-defined functions	Yes	Yes	Yes
	Transaction concept	ACID	ACID	No
Architecture		Separated data storage (S3/GCS/ASA) from computing unit (called "warehouse"). Physical data micro-slicing. Possibility to run many warehouses against the same data within the same time.	Multi-node cluster architecture	Full-featured API-based with massive parallel asynchronous processing. Separated storage from computing power.
Supported Platforms		AWS, GCP, Azure	AWS	GCP
Elasticity	Principles	Unlimited data loading Possibility to run many warehouses against the same data Scaling warehouse sizes (XS, S, M, L, XL) Auto-scaling multi-cluster warehouses (enterprise edition)	Limited only on number of nodes within cluster and node type (vCPUs, Memory, Diskspace)	Unlimited data loads Possibility to run many queries against the same data without locking Invisible autoscaling Limited only by number of API calls within minute
	Time frame	Minutes (resizing of warehouse, adding new warehouse)	Hours (adding nodes to cluster)	Automatically on query level
Availability	Principle	Fully managed SaaS. Distributed system.	Backup/recovery, snapshotting	Distributed system
Security	AAA	Account level user sign-in SSO support Detailed audit trail	Database level user sign-in AWS IAM Detailed audit trail	Fully integrated into G Cloud role-based IAM Detailed audit trail
	Access control	Table level	Table level	Schema level
Pricing	Policy	Pay-as-you-go Based on time credits. Each warehouse size consumes different number of credits. XS: 1 credit/hr, S: 2 credits/hr, M: 4 credits/hr, L: 8 credits/hr, L: 16 credits/hr, XL: 32 credits/hr	Based on number and type of nodes within cluster. Monthly-based flat fee for particular node type	Pay-as-you-go Based on stored data volume and monthly processed data volume
	Price	Different credit price, based on region, starting \$2/credit (US AWS) Discounts for prepaid credits	Starting at \$190/node/mo	Free-tier 10GB stored data and 1TB processed data per month