Metabase 2023 Community Data Stack Report

Data repositories

Data Repository Choice

- Database
- Data Warehouse
- Data Lake
- Google Spreadsheets

187 TOTAL

47.59%
43.32%
8.56%

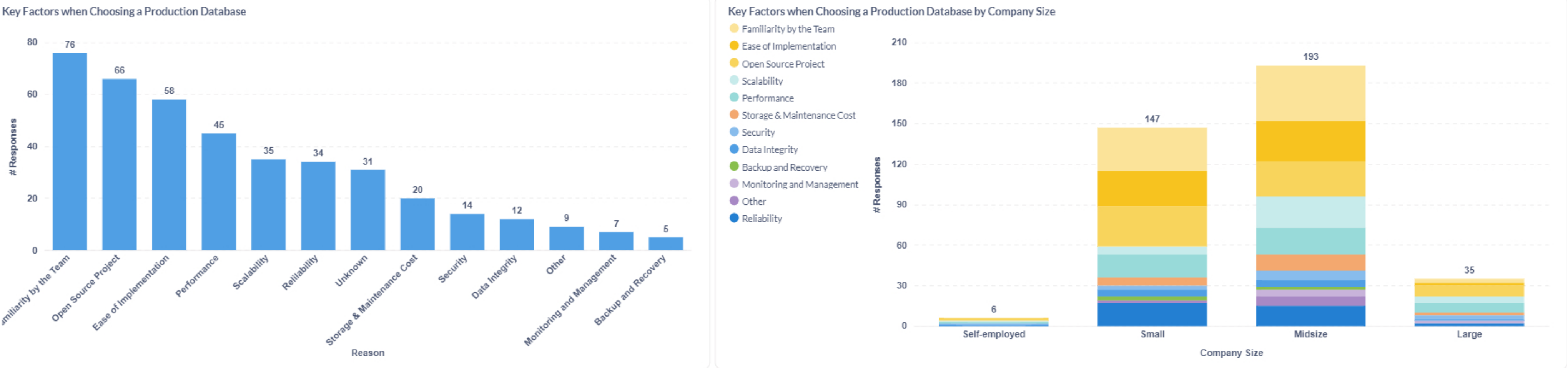**Data Repository Choice by Company Size**

Legend: Database, Data Warehouse, Data Lake, Google Spreadsheets, (empty)
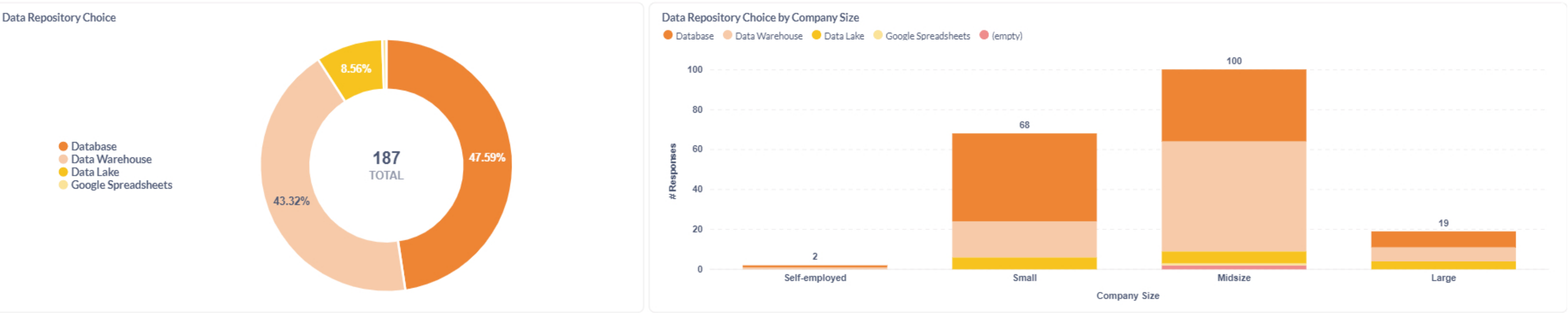
As company size grew, so did the use of a data warehouse. However, data lake use did not grow with company size.

Production databases

Chosen Production Database

Production DB	# Responses
PostgreSQL	74
MySQL	38
Microsoft SQL Server	20
MariaDB	9
MongoDB	8
DynamoDB	7
ElasticSearch	5
Oracle Database	5
Cassandra	1
Clickhouse	1
CrateDB	1
Firebase	1
IBM DB2	1

Chosen Production Database by a Company Size

Legend: PostgreSQL, MySQL, DynamoDB, Microsoft SQL Server, Firebase, Oracle Database, MariaDB, MongoDB, Cassandra, ElasticSearch, CrateDB, IBM DB2, Clickhouse
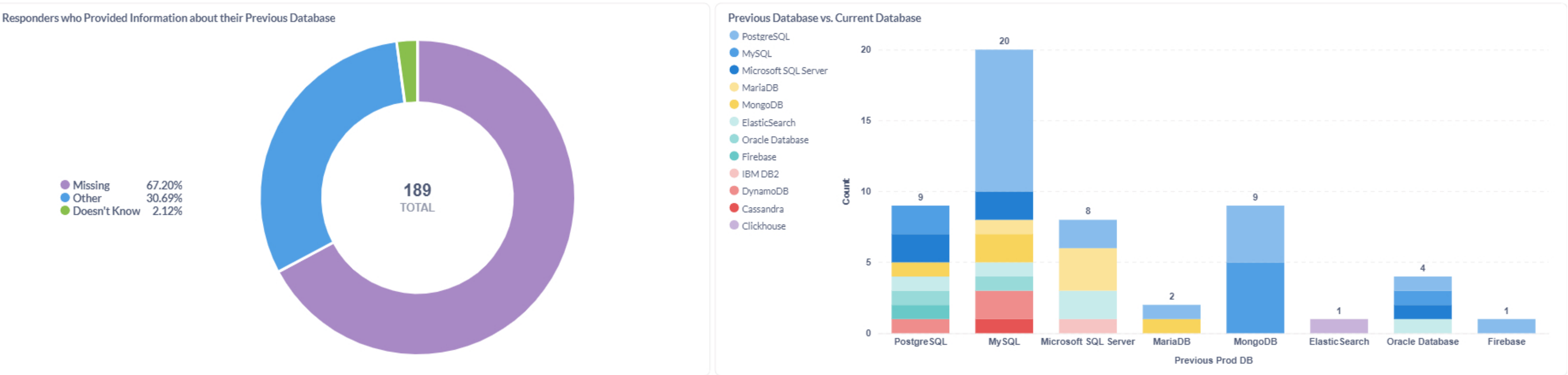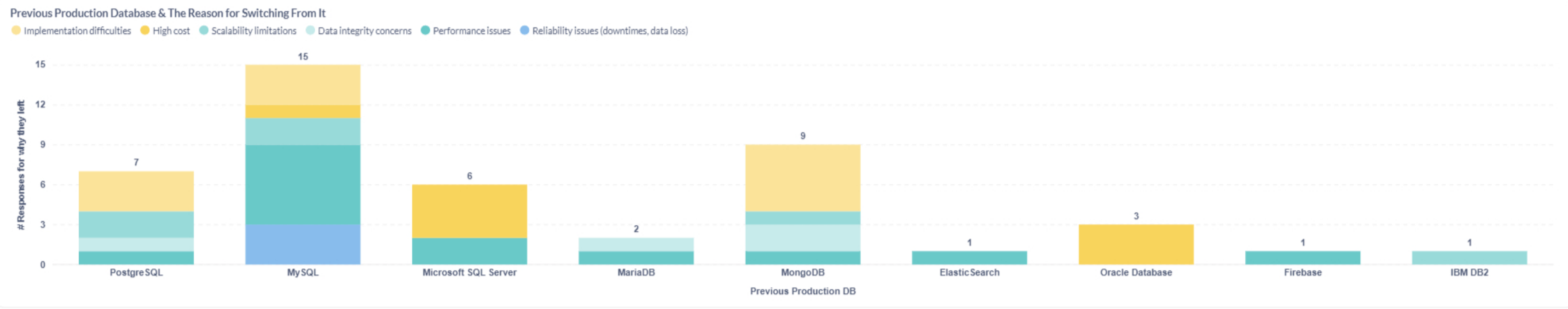
Postgres and MySQL were the most common production database providers no matter the company size. NoSQL databases, like MongoDB and Dynamo DB, were much less popular (<10% of chosen DBs) than relational databases.

Key Factors when Choosing a Production Database

Values (Reason / # Responses): Familiarity by the Team 76, Open Source Project 66, Ease of Implementation 58, Performance 45, Scalability 35, Reliability 34, Unknown 31, Storage & Maintenance Cost 20, Security 14, Data Integrity 12, Other 9, Monitoring and Management 7, Backup and Recovery 5

Key Factors when Choosing a Production Database by Company Size

Legend: Familiarity by the Team, Ease of Implementation, Open Source Project, Scalability, Performance, Storage & Maintenance Cost, Security, Data Integrity, Backup and Recovery, Monitoring and Management, Other, Reliability

Values: Self-employed 6, Small 147, Midsize 193, Large 35

Switching databases

Responders who Provided Information about their Previous Database

189 TOTAL

- Missing   67.20%
- Other   30.69%
- Doesn't Know 2.12%

Previous Database vs. Current Database

Legend: PostgreSQL, MySQL, Microsoft SQL Server, MariaDB, MongoDB, ElasticSearch, Oracle Database, Firebase, IBM DB2, DynamoDB, Cassandra, Clickhouse

Values (Previous Prod DB / Count): PostgreSQL 9, MySQL 20, Microsoft SQL Server 8, MariaDB 2, MongoDB 9, ElasticSearch 1, Oracle Database 4, Firebase 1

~69.3% of respondents either didn't know, or did not fill in, their previous production database. Half of those who did respond said they migrated from MySQL to Postgres.

Previous Production Database & The Reason for Switching From It

Legend: Implementation difficulties · High cost · Scalability limitations · Data integrity concerns · Performance issues · Reliability issues (downtimes, data loss)

Previous Production DB	# Responses for why they left
PostgreSQL	7
MySQL	15
Microsoft SQL Server	6
MariaDB	2
MongoDB	9
ElasticSearch	1
Oracle Database	3
Firebase	1
IBM DB2	1

Performance was the main reason people migrated away from their previous database. For example, 75% of those who left MySQL said it was because of performance, reliability, and implementation issues.

Current Production Database & The Reason for Switching To It

Legend: Implementation difficulties · High cost · Data integrity concerns · Scalability limitations · Performance issues · Reliability issues (downtimes, data loss)

Current Production DB	# Responses for why they joined
PostgreSQL	18
MySQL	7
Microsoft SQL Server	3
MariaDB	2
MongoDB	3
ElasticSearch	4
Firebase	1
Cassandra	1
Clickhouse	1
DynamoDB	3