

Agens SQL

Open Source PostgreSQL based DBMS with Oracle compatibility, 24 x 365 global tech support

What are the trends on IT market?

IT industry key trends _____

5G Network

Full stack developmen

Machine Learning (ML)

Virtual Reality (VR) and Augmented Reality (AR)

Cloud Computing Platform Engineering

Cybersecurity 5G Technology Metaverse

Big Data and Analytics

Internet of Things (IoT) Remote Work Technologies

Sustainable IT Wearable Device

Edge Computing Blockchain DevOps

Intelligent Applications Artificial Intelligence (AI)

Quantum Computing

Automation system

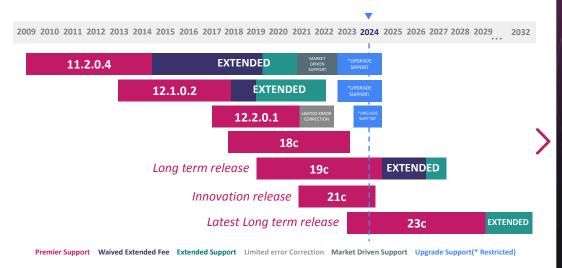
Data volume and complexity increasing

Impacts on **DBMS**

- Evolution for scalability
 increasing data volumes and workloads
- Requirement on flexibility
 accommodate different data models and types
- Focus on security and compliance

Oracle database releases

Continuous update required to catch up the releases



Pain points

- Substantial cost burden and license compliance matters
- Upgrade / migration complexity and compulsion
- Limited customization and vendor lock-in

Alternative solution

Open-source + Improvement Business model

"Enhanced the advantages and mitigated the weakness of open-source"

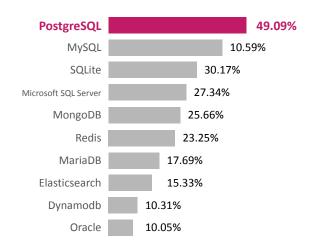
WHY PostgreSQL out of open-source DB?

the #1 developer favorite open-source DBMS

"Open source has become open for business"



DB-Engine Ranking



DB-Engines Ranking

The DB-Engines Ranking ranks database management systems according to their popularity. The ranking is updated monthly

Read more about the method of calculating the scores

Mar 2024	Rank Feb 2024	Mar 2023	DBMS	Database Mod
1.	1.	1.	Oracle 🚦	Relational, Multi-mo
2.	2.	2.	MySQL 😝	Relational, Multi-mo
3.	3.	3,	Microsoft SQL Server	Relational, Multi-mo
4.	4.	4.	PostgreSQL 🖽	Relational, Multi-mo
5.	5.	5.	MongoDB 🚦	Document, Multi-mi
6.	6.	6.	Redis =	Key-value, Multi-mo
7.	7.	↑ 8.	Elasticsearch	Search engine, Mult
8.	8.	₽ 7.	IBM Db2	Relational, Multi-mo
9,	9.	↑ 11.	Snowflake 🛅	Relational

Source : <u>2023 StackOverFlow Survey</u> Source : <u>DB-Engine</u>

Copyright © AGEDB Technology Ltd. 2024 Product Introducti



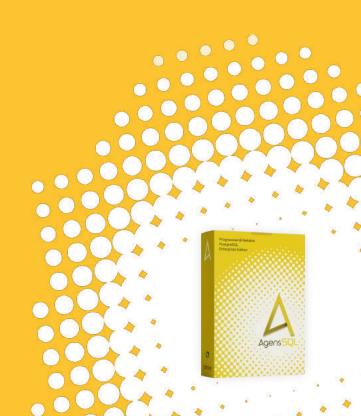


Your Data, Our Passion: PostgreSQL at the Core

"Enhanced the advantages and mitigated the weakness of open-source"



Open Source PostgreSQL based DBMS with Oracle compatibility, 24 x 365 global tech support



WHY AgensSQL?

Migrate from Oracle to PostgreSQL based AgensSQL

Performance compatible

Cost Efficiency

Oracle Compatibility

24 x 365
Tech Support

Agens SQL

Your Data, Our Passion: PostgreSQL at the Core



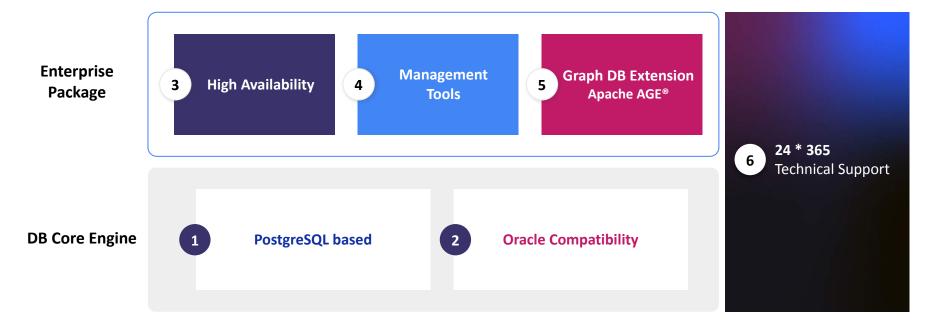
WHY Bitnine?

 The only DBMS tech company listed in KOSDAQ market "Reliable" Company Various business cases for 12 years history Opensource philosophy in foundation "Innovative" **Technology leader** Core level database developers in R&D Worldwide located offices and subsidiaries "Global" player • 24 x 365 enterprise level tech support

Product Introduction

Product Architecture

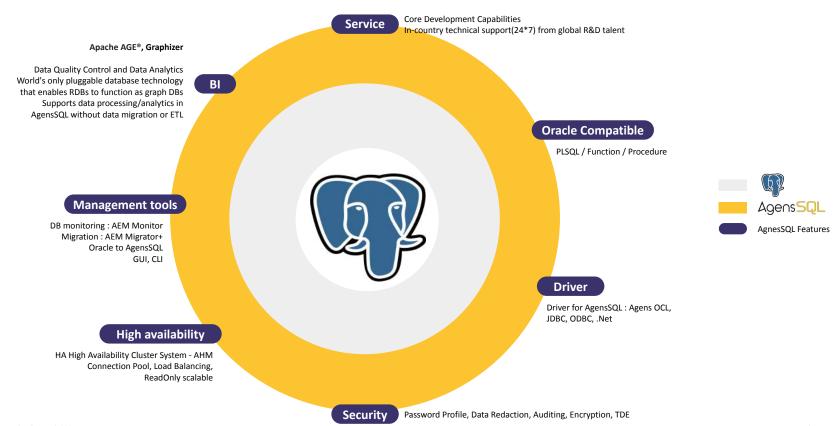




Copyright © AGEDB Technology Ltd. 2024

1 PostgreSQL based DB

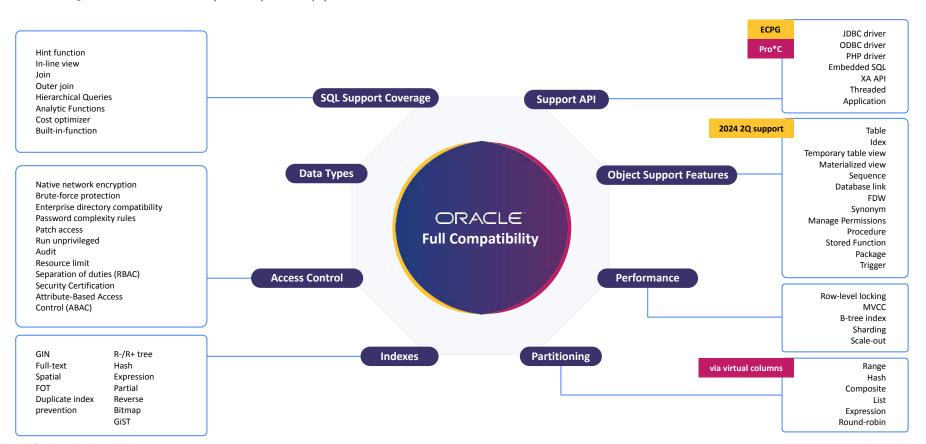
Agens SQL! Postgre-based stable database with the enhanced security features, tools and tech support



opyright © AGEDB Technology Ltd. 2024

2 Oracle Compatibility

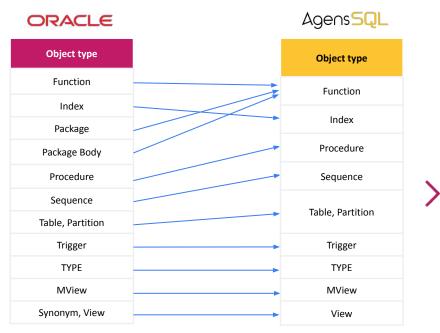
Agens SQL! Oracle compatibility can help your team minimize the transition burden



Copyright © AGEDB Technology Ltd. 2024 Product Introducti

2 Oracle Migration

Age∩s SQL Oracle Transition: Making Migration Effortless for All





- Case Sensitivity: Oracle -> Case string processing, Postgresql -> Lower case processing
- NULL Handling: Processing of Non-space String is recognized as Null in Oracle and Value of String in AgensSQL

Oracle Migration tools with AEM

Integrated compatibility technology

AEM Migrator



AEM Migrator Oracle to PG Mode

- Data Type Compatibility
- User Feature Procedural Transformation Support



AEM Migrator Plus



Migration Desktop(GUI)

Oracle to Oracle Mode

 Provide available schemas and table views for data migration process



Migration Tool (CLI)

Oracle to Oracle Mode

Features for DBAs

- Gain detailed control over the migration process
- Oracle schema extraction and conversion





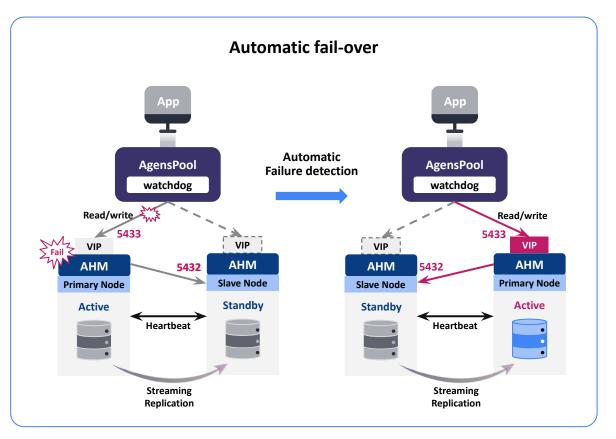
pyright © AGEDB Technology Ltd. 2024

Product Introduction

3 High Availability

Guaranteeing High Availability in Continuous Business Environments with AHM





ppyright © AGEDB Technology Ltd. 2024 Product Introductio

4 Management Tools

Elevating Performance with Advanced Management Tools and Data Relationship Analysis



AEM Admin

Admin SolutionFeatures for **DBAs**

Agens Enterprise Manager

is a browser-based console that combines AgensSQL management and monitoring features based on PG admin

AEM Monitor

DBMS Monitoring Solution *Features for Management*

AEM Monitor

it servers as monitoring product to check the database status information and identify any performance issues occurring

AEM Migrator

Migration UI Tool Features for Engineers

Standard

Oracle to PG Mode Windows Migration Tool

Enterprise

Oracle to Oracle Mode
Migration Web Guide
Migration Toolkit

Enterprise Edition +

AEM Migrator Portal(Web)

The Migration Portal

is a web-based service for migrating Oracle database schemas to AgensSQL

It evaluates and analyzes
Oracle database schemas
and facilitates the
conversion process



AEM Migration Tool(CLI)

Powerful CLI tool

available for fine-grained control over the migration process It allows migration of Oracle database objects and data

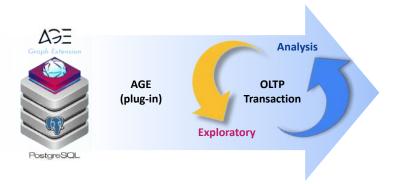
Object the contract of the con

5 Graph ext. Apache AGE®

Apache AGE® makes Graph Database available on top of Agens SQL without migration



"Apache AGE® is an open-source software that offers the world-first pluggable extension of graph data modeling and analytics on top of a relational database"



RDB + GDB

World's Only RDB + GDB graph analysis solution

Seamless Data Processing

Data processing and analysis within AgensSQL without migration

Enhancing data integrity

Hybrid Queries

World's first hybrid query feature supporting simultaneous execution of SQL (RDB) and Cypher (GDB) queries

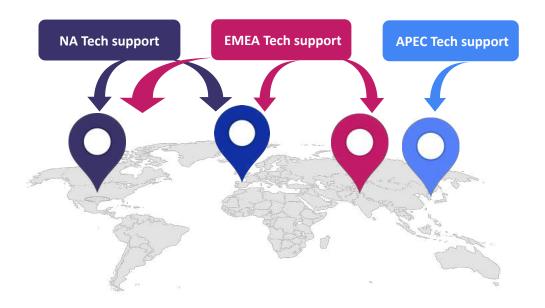
Graph Technology Efficiency

Handling complex business data analysis more efficiently and cost-effectively using graph technology

Copyright © AGEDB Technology Ltd. 2024 Product Introduction

24 * 365 Technical Support

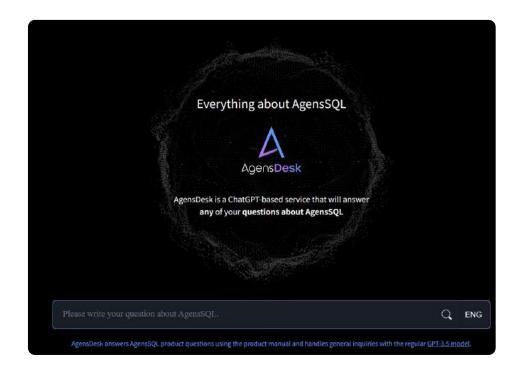
Commitment for 24 x 365 Technical Support



- Rapid responsive to all levels inquires
- 24 x 365, **anytime available** service windows
- Collaborative direct support from vendor

6 Tech support portal

"AgensDesk", AI-ChatGPT based tech portal



- Troubleshoot access from anywhere
- Round-the-clock technical support available
- Personalized approach for engineering support

Professional Services

Professional Services for Database Excellence: PostgreSQL, Oracle Compatibility, and More

	Professional Services
PostgreSQL DBMS Services	 Initializing and setup services DBMS upgrade services High availability implementation services Performance tuning services Problem determination and solving services Backup and recovery services
Oracle Compatibility Consultancy Services	 Support interoperability of Oracle functions, procedures and triggers Support PL/SQL features in PostgreSQL Customization of Oracle features based on additional customer requirements
Oracle Data Migration Services	 Data migration consultancy services for prerequisites and environment review and application compatibility Performing Data migration using conversion tool from various databases to PostgreSQL (Oracle, MySQL, MSSQL) Cloud migration: Data migration from on-premise to cloud environment
Interface Development Services	 Support interoperability from interface development between PostgreSQL and 3rd party solutions Support interoperability in PostgreSQL extensions

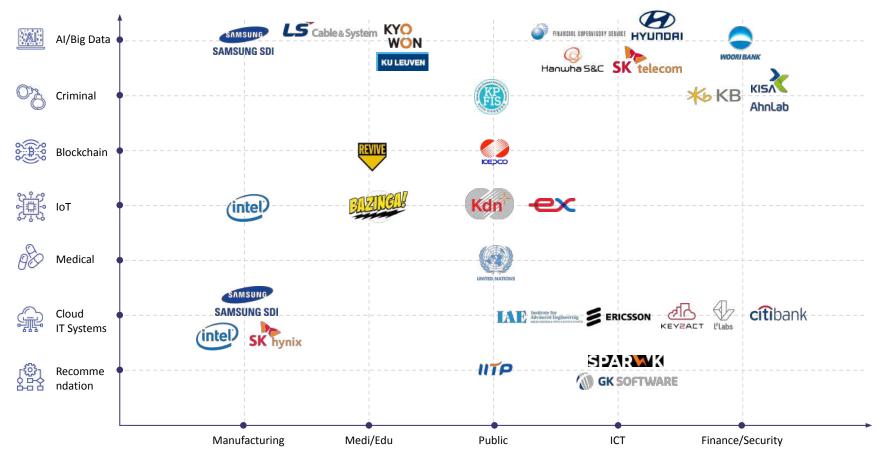
Copyright © AGEDB Technology Ltd. 2024

Product Package

	DBMS	High Availability	Management Tools	Graph DB support
Enterprise Edition +	AGENS SQL with Apache AGE®	Agens HA Manager Agens Pool (LB)	AEM admin AGE Viewer AEM Monitor AGE Loader AEM Migration + Graphzier	Apache AGE® Graphizer
Enterprise Edition	Agens SQL Oracle Compatibility	Agens HA Manager Agens Pool (LB)	AEM admin AEM Monitor AEM Migration +	
Standard Edition	Agens SQL for PostgreSQL		AEM admin AEM Monitor AEM Migration	

Copyright © AGEDB Technology Ltd. 2024

References



Copyright © AGEDB Technology Ltd. 2024

Product Introduction

Contact us marketing@agedb.io

THANK YOU.

©AGEDB Technology Ltd. 2024 The AGEDB logo and AGEDB brand names are trademarks or registered trademarks of AGEDB Technology Ltd. in Canada and other countries. Other company, product and service names may be trademarks or registered trademarks of their respective owners. All rights reserved. No part of this document may be reproduced, stored or transmitted in any form without prior written permission of AGEDB Technology Ltd. AGEDB Technology Ltd. endeavors to ensure the information in this document is correct and fairly stated but does not accept liability for any errors or omissions.

Published: April 2024

The Apache Software Foundation Apache AGE, AGE, Apache, the Apache feather, and the Apache AGE project logo are either registered trademarks or trademarks of the Apache Software Foundation.