

SQL Server 2025 editions and versions — and how they compare to previous releases. (as of November 2025)

SQL Server 2025 — Versions & Build History

Version / Build	Release / Stage	Notes
17.0.1000.7	RTM / GA (General Availability) — November 18, 2025	This is the official “SQL Server 2025” release.
17.0.925.4	Release Candidate (RC1) — 2025-09-16	Pre-GA release for testing and early adopters.
17.0.900.7	RC0 — 2025-08-21	Pre-GA release stage.
17.0.800.3	Public Preview (CTP 2.1) — 2025-06-16	Early public preview build before RCs.
17.0.700.9 / 17.0.600.9 / 17.0.17.0	Earlier Community Technology Previews (CTP 2.0, CTP 1.5, CTP 1.0) — 2024-11-19 through 2025-04-10	Beta / preview builds.

- The “version number” for SQL Server 2025 is **17.x** (i.e. “SQL Server 17.0”).
- The “database compatibility level” associated with SQL 2025 is **170**.
- According to Microsoft’s product lifecycle documentation, SQL Server 2025’s **mainstream support ends January 6, 2031**, and **extended support ends January 6, 2036**.

SQL Server 2025 — Editions (Licensing / SKU)

With SQL Server 2025, the edition lineup has been updated. According to Microsoft:

Edition	Description / Key Notes
Enterprise	Full-feature, enterprise-grade edition (as in prior versions) — for large scale, mission-critical workloads.
Standard	General-purpose edition; in 2025, resource limits increased to up to 32 CPU cores and 256 GB memory , and full Resource Governor is now available in Standard (allowing e.g. tempdb RG) — a significant upgrade from previous versions.
Standard Developer	A new “flavor” of Standard — free to use for development and testing — with feature parity to Standard edition. This helps developers mirror production Standard environments.
Enterprise Developer	The legacy “Developer” edition, tied to Enterprise features (for testing/dev only). Upgrades from prior Developer edition or equivalent.
Express	Free, lightweight edition — in 2025, database-size limit increased to 50 GB per database . Also, prior “Express Advanced” has been consolidated into a <i>single</i> unified Express.
Evaluation	Trial edition (time-limited), useful for testing before committing to licensing. Upgradable from prior Evaluation or supported older editions.

Notably — Discontinued / Removed Edition

- Web edition:** Previously available in older versions, but **Web edition is discontinued in SQL Server 2025**. According to the release notes, 2022 was the final version supporting Web edition.
- If you previously used Web edition and are upgrading to 2025, it will migrate (depending on upgrade path) to either Enterprise or Standard edition.

Upgrade/Compatibility Paths to 2025

According to Microsoft, you can upgrade from the following older versions to SQL Server 2025 (17.x):

- SQL Server 2014 (SP3 or later)
- SQL Server 2016 (SP3 or later)
- SQL Server 2017
- SQL Server 2019
- SQL Server 2022

From any supported edition (Enterprise, Standard, Developer, Express, Business Intelligence, Evaluation), there are defined upgrade paths to the new 2025 editions.

Quick Reference Summary Table

Edition / Build / Name	Version / SKU	Use Case / Notes
SQL Server 2025 (RTM)	17.0.1000.7	Production-ready, officially supported starting Nov 18 2025
Enterprise	2025 Enterprise	Full-featured for large/mission-critical workloads
Standard	2025 Standard	General-purpose; increased core (32) + memory (256 GB) limits, Resource Governor now available
Standard Developer	2025 Standard Developer	Free for development & testing; mirrors Standard edition features
Enterprise Developer	2025 Enterprise Developer	Free for development & testing; mirrors Enterprise features
Express	2025 Express	Free, lightweight; 50 GB per DB size limit — good for small/embedded DBs or dev environments
Evaluation	2025 Evaluation	Time-limited trial, for evaluation or proof-of-concept
(No more Web Edition)	N/A	Web SKU discontinued in 2025; upgrade paths map Web → Standard or Enterprise

What's New / Different in 2025 vs Previous Versions

- SQL Server 2025 is version **17.x** (not to be confused with SQL Server 2017) — this means new “major version” bump.
- Standard Edition’s resource limits significantly increased (cores & memory), bringing better performance potential for Standard customers.
- The “Standard Developer” SKU is new — letting dev/test environments match production Standard configuration.
- Express edition improved — DB size per database increased to 50 GB.
- Web edition is removed as of 2025 — organizations using Web need to plan migration to Standard or Enterprise.
- SQL Server 2025 includes many engine improvements: AI-ready features, enhanced JSON and RegEx support, engine performance optimizations, new locking mechanisms, enhanced concurrency, and other modernizations.

SQL Server 2025 vs SQL Server 2022 comparison table — focused on editions, resource limits, features, licensing differences, and upgrade considerations.

★ SQL Server 2025 vs SQL Server 2022

Full Comparison Table (Editions, Limits, Features)

1. Editions & Availability

Feature / Edition	SQL Server 2022	SQL Server 2025
Enterprise	✓	✓
Standard	✓	✓ (with higher limits + more features)
Developer (Enterprise Dev)	✓	✓
Standard Developer	✗	✓ (new)
Express	✓ (10 GB DB limit)	✓ (50 GB DB limit)
Evaluation	✓	✓
Web edition	✓	✗ (discontinued)
Big Data Clusters	✗ (removed in 2022)	✗

2. Hardware / Resource Limits (Important for capacity planning)

Resource	SQL Server 2022 Standard	SQL Server 2025 Standard	SQL Server 2022/2025 Enterprise
Maximum CPU cores	24	32	OS max
Maximum memory (DB engine)	128 GB	256 GB	OS max
Maximum memory (columnstore)	32 GB	256 GB	OS max
Max DB size	524 PB	524 PB	524 PB
Express Max DB size	10 GB	50 GB	—

3. Key Engine / Feature Differences

Feature Area	SQL Server 2022	SQL Server 2025
Database compatibility level	160	170
Cardinality Estimator improvements	Yes	New advanced CE / adaptive optimization
Intelligent Query Processing	v2	v3 (more scenarios: UDF inlining, memory grant tuning)
Improved JSON functions	Limited	Native JSON arrays, JSON_TABLE, faster parsing
New RegEx (regular expression functions)	✗	✓ (native SQL REGEXP functions)
AI-integration capabilities	Foundational	Expanded “AI-ready engine” enhancements
Always On enhancements	Yes	Faster failover, improved sync
TempDB enhancements	Minimal	Resource Governor now works in Standard
Security	Ledger, Always Encrypted enhancements	More granular key management + improved auditing

4. Edition-Specific Feature Differences

Feature	2022 Standard	2025 Standard	Notes
Resource Governor	✗	✓ Added	Major upgrade for Standard licensing
PolyBase	✓	✓	—
In-Memory OLTP	Limited	Limited	—
Transparent Data Encryption	✓	✓	—
Columnstore indexes	✓	✓	Memory limit now higher in 2025

5. Management, Performance, and Dev Improvements

Area	SQL Server 2022	SQL Server 2025
Query Store	Enabled by default	Smarter auto-tuning + rollback protection
Extended Events	Mature	Extended coverage for waits, memory, JSON ops
Developer environment	Developer edition only	Standard Developer + Enterprise Developer
TempDB performance	Good	Significantly improved for mid-tier setups
Log throughput	Solid	Higher parallel log writer + new flush pipeline

6. Licensing Changes

Topic	SQL 2022	SQL 2025
Core licensing	Same	Same
Web edition	Available	Removed
Standard Developer SKU	✗	✓ New
Feature uplift in Standard	Moderate	Major (RG, higher limits)

7. Upgrade / Migration Differences

Migration Aspect	SQL 2022	SQL 2025
Can upgrade from SQL 2014 → 2022	✓	✓
Can upgrade from SQL 2022 → 2025	—	✓
Web edition upgrade path	Stays Web	Upgrades to Standard or Enterprise
Compatibility level after upgrade	160	170

✗ What DOESN'T Change

These features remain consistent across 2022 → 2025:

- Licensing model (per core, CAL model, etc.)
- HA / DR availability groups structure
- SQL Agent, CDC, Replication, Mirroring support
- Windows / Linux availability
- Encryption model (TDE, Always Encrypted)

 Summary (Executive View)

Area	Winner	Why
Performance	SQL 2025	New CE, faster JSON, improved parallelism
Standard Edition Value	SQL 2025	Higher resource limits + Resource Governor
Developer Experience	SQL 2025	Standard Developer SKU added
Express Edition	SQL 2025	DB size from 10 GB → 50 GB
Feature Set	SQL 2025	JSON, RegEx, IQP v3, engine improvements
Upgrade Simplicity	Tie	Similar process

<https://www.sqlbachamps.com/>

1. Full Side-by-Side Edition Comparison Matrix

SQL Server 2022 vs SQL Server 2025 — Enterprise vs Standard vs Express

This is a clean, high-resolution matrix that can be used for planning, licensing decisions, or upgrade discussions.

SQL Server 2022 vs 2025 — Edition Comparison Matrix

A. Core Features & Engine Capabilities

Feature / Capability	2022 Express	2022 Standard	2022 Enterprise	2025 Express	2025 Standard	2025 Enterprise
Database Engine	✓	✓	✓	✓	✓	✓
Max Database Size	10 GB	524 PB	524 PB	50 GB	524 PB	524 PB
Max Compute Cores	1 socket / 4 cores	24 cores	OS max	1 socket / 4 cores	32 cores	OS max
Max SQL Memory	1.4 GB	128 GB	OS max	1.4 GB	256 GB	OS max
Max Columnstore Memory	N/A	32 GB	OS max	N/A	256 GB	OS max
Table Partitioning	✗	✓	✓	✗	✓	✓
PolyBase	✓ (limited)	✓	✓	✓ (limited)	✓	✓
In-Memory OLTP	✗	Limited	✓	✗	Limited	✓
Columnstore Indexes	✗	✓	✓	✗	✓	✓
Query Store	✓	✓	✓	✓	✓	✓
Intelligent Query Processing	✓	✓	✓	✓	IQP v3	IQP v3
JSON Functions	Basic	Basic	Basic	Advanced JSON + JSON_TABLE	Advanced	Advanced
Regular Expressions (REGEXP_)	✗	✗	✗	✓	✓	✓

B. High Availability / Disaster Recovery

HA / DR Feature	2022 Express	2022 Standard	2022 Enterprise	2025 Express	2025 Standard	2025 Enterprise
Basic Availability Groups	✗	✓	—	✗	✓	—
Advanced Availability Groups	✗	✗	✓	✗	✗	✓
Readable Replicas	✗	✗	✓	✗	✗	✓
Failover Cluster Instances	Limited	✓	✓	Limited	✓	✓
Distributed AGs	✗	✗	✓	✗	✗	✓
Online Index Rebuild	✗	Partial	✓	✗	Partial	✓
Accelerated Database Recovery	✓	✓	✓	✓	✓	✓

C. Security & Compliance

Security Feature	2022 Express	2022 Standard	2022 Enterprise	2025 Express	2025 Standard	2025 Enterprise
Transparent Data Encryption (TDE)	✗	✓	✓	✗	✓	✓
Always Encrypted	✓	✓	✓	✓	✓	✓
Ledger (Blockchain tables)	✓	✓	✓	✓	✓	✓
Row-Level Security	✓	✓	✓	✓	✓	✓
Dynamic Data Masking	✓	✓	✓	✓	✓	✓
Enhanced Key Management	Basic	Basic	Advanced	Basic	Improved	Improved

D. BI, Analytics, ETL

Capability	2022 Express	2022 Standard	2022 Enterprise	2025 Express	2025 Standard	2025 Enterprise
SSIS (on-server)	Limited	✓	✓	Limited	✓	✓
SSAS Tabular	Limited	Limited	✓	Limited	Limited	✓
SSRS	Separate install					
Machine Learning Services	✗	Limited	✓	✗	Limited	✓

E. Resource Governor & Performance Workload Control

Feature	2022 Express	2022 Standard	2022 Enterprise	2025 Express	2025 Standard	2025 Enterprise
CPU/Memory Resource Governor	✗	✗	✓	✗	✓	✓
IO Resource Governance	✗	✗	✓	✗	✓	✓
TempDB Governance	✗	✗	✓	✗	✓	✓

F. Licensing & Edition Notes

Licensing Area	2022 Standard	2025 Standard	2022 Enterprise	2025 Enterprise	2022 Express	2025 Express
Core Licensing	✓	✓	✓	✓	N/A	N/A
CAL Licensing Option	✓	✓	✗	✗	N/A	N/A
Web Edition Available	✓	✗	✓	✓	✓	✓
"Standard Developer" SKU	✗	✓ (New)	—	—	—	—

★ Key Takeaways → Summary of biggest differences from 2022 → 2025:

Standard Edition: HUGE upgrade

- CPU limit: 24 → 32 cores
- Memory: 128 GB → 256 GB
- Columnstore memory: 32 GB → 256 GB
- **Resource Governor added** (previously Enterprise-only)

Express Edition: major capacity boost

- DB size 10 GB → 50 GB

New features

- Native **REGEXP** functions
- Full **JSON_TABLE** + faster JSON
- Intelligent Query Processing **v3**

- Faster logging + concurrency improvements
- AI-ready engine enhancements

Edition changes

- **Web Edition discontinued**
- New **Standard Developer** edition introduced

2. SQL Server 2022 → SQL Server 2025 Migration Planning Checklist

This is a practical, production-ready checklist you can use as a template.

SQL Server 2022 → SQL Server 2025 Migration Checklist

1. Pre-Migration Assessment

- ✓ Confirm OS compatibility (Windows Server/Linux version)
- ✓ Check hardware requirements & memory/CPU alignment
- ✓ Review SQL Server features used (ensure supported in 2025)
- ✓ Review edition changes (e.g., Web edition discontinued)
- ✓ Inventory all instances, databases, SQL Agent jobs
- ✓ Inventory linked servers, SSIS packages, SSRS, SSAS
- ✓ Validate that third-party applications support SQL 2025
- ✓ Review breaking changes & deprecated features
- ✓ Confirm storage performance requirements

2. Database Compatibility Review

- ✓ Check database compatibility level (160 in 2022)
- ✓ Plan for **170 compatibility** after upgrade
- ✓ Test queries for optimizer behavior differences
- ✓ Enable Query Store to capture baselines
- ✓ Capture wait stats, top queries, regressions

3. Application & Workload Testing

- ✓ Test using 2025 Preview/Dev/Standard Dev edition
- ✓ Validate ODBC/OLEDB/ADO.NET driver compatibility
- ✓ Test ETL/SSIS package execution
- ✓ Validate replication & availability group configurations
- ✓ Test JSON, XML, T-SQL, triggers, CLR
- ✓ Validate Full-Text Search behavior

4. HA / DR Planning

- ✓ Validate cluster/AG version support
- ✓ Check AG replicas version upgrade path
- ✓ Review backup/restore strategy
- ✓ Validate log shipping
- ✓ Validate DR site connectivity
- ✓ Review failover testing plan

5. Upgrade Strategy

Choose one:

- **In-place upgrade** (fast, simpler)
- **Side-by-side migration** (safer, recommended)
- **Backup/Restore** (classic approach)
- **Log shipping to new version**
- **AG based rolling upgrade**

Checklist:

- ✓ Perform full backup before migration
- ✓ Test restore on new version
- ✓ Validate encryption & certificates
- ✓ Validate SQL Agent jobs
- ✓ Validate server-level objects (logins, credentials, linked servers)

6. Post-Migration Tasks

- ✓ Set compatibility level to 170 (optional at first)
- ✓ Enable Query Store (if not already enabled)
- ✓ Monitor query regressions
- ✓ Update statistics
- ✓ Rebuild indexes
- ✓ Validate performance baselines
- ✓ Validate application functionality
- ✓ Configure backups and maintenance jobs

7. Documentation & Rollback Plan

- ✓ Document all configuration changes
- ✓ Keep a fallback snapshot/backup
- ✓ Validate rollback path (restore to 2022 if needed)
- ✓ Share final checklist with stakeholders