

Mohamed Fawzy Ismail Abdelhalem

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Personal Details:

July 12th, 1982, • **Place of Birth:** Egypt • **Nationality:** Egyptian

Male • **Civil Status:** Married • **Location:** Saudi Arabia

Senior Database Administrator and Database Developer

14+ years' success designing, developing, and implementing database solutions using Microsoft SQL Server and Oracle that improved business functionality

Accomplished senior database administrator with proven expertise in performance tuning, crisis management, and high availability to improve reliability, increase productivity, reduce license costs, and introduce system efficiencies. Demonstrate excellence in establishing disaster recovery plans and procedures and implementing oracle database replication with advanced replication and Oracle-based security systems to support business needs. Expert problem solver; forged solid relationships with strategic partners and built consensus across multiple organizational levels.

Database Management / Database Development / Performance Tuning / Database Capacity Monitoring / Project Planning & Management Database Application Development / Data Security, Backup & Recovery / Systems Engineering & Integration / Customer Relationship Management / Data Management / Data Quality / Data Recover / Database Heterogeneous & Homogeneous Migration

TECHNICAL & LANGUAGES PROFICIENCIES

Software & Hardware: Microsoft SQL Server 2000, 2005, 2008, 2012, 2014, 2016, 2017 & 2019, SQL Server Architecture & Internals, Failover Cluster, Always On, Replication, Log Shipping, Mirror, SQL Developer, Performance Tuning, Integration Service, Reporting Service, Windows Server 2003 - 2019; Oracle 9i - 19c; SQL; T-SQL; PL/SQL; Red Hat Linux 5 - 8, Servers, MariaDB 1.3 - 1.4, MySQL 5.5, Microsoft C# .Net; Python 3.7; Oracle 6i Forms & Reports; Shell Script; PowerShell

Languages: Arabic, English and German (A2)

PROFESSIONAL EXPERIENCE

Senior Database Administrator and Database Developer (11/2021 – Present)

[Bank Albilad, Saudi Arabia](#)

Technical Scope: Microsoft SQL Server 2012 to 2019; SSIS; SSRS; SQL; T-SQL; Oracle 11g to 19c; PL/SQL; MySQL 5.5; PostgreSQL; MongoDB; Microsoft C# .Net; Python 3.7; PowerShell; Windows Server 2008 to 2019; Red Hat 7 & 8; Ubuntu 20.04

I am working as a senior member of the Database Engineer and Database Operation team in Bank Albilad to manage and operate big data and core banking system "T24" with a very aggressive SLA, and support on-call 24/7/365, As Bank Albilad is the first bank in the middle east that uses Microsoft SQL Server for core banking.

- Implement different and complex types of High Availability and Disaster Recovery for Microsoft SQL Server.
- Addressed and mitigated databases, applications, and development tools problems, created complex query definitions for data extraction, developed and implemented.
- Automate complex processes using T-SQL, PowerShell, SSIS, Python, and SQL Agent jobs.
- Migrating databases homogeneous or heterogeneous.
- Working intensively with XML and beside that I can recover it from the Transaction log files as a deleted record or even can recover a truncated or dropped table to read the unallocated pages and generate insert statements to get the missing rows.
- Every day managing and operating big SQL databases (Max size I reached till now is 200 TB).
- Almost automate all my daily work trivial or complex to make life easy with time comes that I need answer of why this SQL or procedure is slow, or which database has a delay of syncing and why.

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- As a team leader of 15 members of DBA team I distribute the work between us that we can all have the same experience, even I am challenging them that who will finish this task faster than me.
- Migrating database from on-premises to Microsoft Azure Cloud with multiple.
- Working side by side with Windows, Active Directory, Storage, Backup and Azure DevOps teams.
- Creating windows clusters and configuring quorums with changing they votes in maintenance mode.
- Implement database performance monitoring and tuning.
- Support of application and database upgrades from existing SQL versions to SQL2000, SQL2019, and future supported releases.
- With high database internals knowledge that leads me to tune the systems case by case.
- Managing the operation systems tasks related to database administration.
- Recover records that have already been deleted, miss updated, or even reinsert them online without downtime with big databases like (100TB or 250TB) by converting the hexadecimal record in the transaction log file or backup and reinserting it again.
- Proactively monitor the TempDB for any contention and resolve it.
- Design indexes and delete the unused ones by monitoring the usage of these indexes.
- Monitor the new Statistics that already has been created by the optimizer to see if it is needful to create an index or redesign the existing indexes or if it's just an ad-hoc query.
- Set extended events to monitor Latches and deadlock, etc...
- Regularly distributing all pages (data pages and index pages) of all objects in all data files for better performance.

Senior Database Architect (4/2020 – 11/2021)

[Wipro, Saudi Arabia](#)

Technical Scope: Microsoft SQL Server 2012 to 2019; SSIS; SSRS; SQL; T-SQL; Oracle 11g to 19c; PL/SQL; MySQL 5.5; Microsoft C# .Net; Python 3.7; PowerShell; Windows Server 2008 to 2019; Red Hat 6, 7 & 8; Ubuntu 20.04

I worked as a Team leader of the Database Administration and Database Development section in Riyadh Airports Company managing database servers with a lot of flavours using MS SQL Server and Oracle.

Lead migrations of programs, database changes, reference data changes in the development life cycle and database consolidation, database development team to achieve all systems requirements for automation and daily reporting, keep all databases in constant health monitoring and tuned one with SLA under our division.

Having additional tasks to handle all roles and responsibilities as a system administrator for the Linux operating system for tasks of application server and database servers as well.

Senior DBA and Database Developer (11/2013 – 3/2020)

[Saudi Telecom Company, Saudi Arabia](#)

Technical Scope: Microsoft SQL Server 2008 to 2016, SSIS; SSRS; Oracle 11g & 12c; MariaDB 1.3; MySQL 5.5; Microsoft C# .Net; Python 3.7; Windows Server 2008 & 2012; Red Hat 6.7

I am working as a Senior Database Administration and Database Developer for [Giza Arabia](#) and outsourcing to STC. Managing for more than 1000+ database servers with a lot of flavours for MS SQL Server (Standalone, SQL failover cluster, SQL Always-On Availability Groups, Replication, Mirroring, and Log Shipping) and Oracle with different types of relevant applications. Lead migrations of programs, database changes, reference data changes in the development life cycle and consolidate STC databases Microsoft SQL Server and oracle from old servers into the new environment. Conduct performance tuning, optimization activities, capacity planning, troubleshooting, and application tuning of the database instances. Assess the design and code to ensure compliance with site standards and produce and maintain high-quality technical documentation. Steer impact analysis of changes in database tables, indexes, functions, and stored procedures. Integrate security patches and policies from the database side and design custom encryption to explore data security. Provide technical assistance to application development teams and perform operating system tasks.

Senior Database Administrator and Database Developer (5/2011 – 10/2013)

[ITSC, Egypt](#)

Technical Scope: Microsoft SQL Server 2000, 2005 & 2008; Oracle 11g; MySQL 5.5; Microsoft C# .Net; Windows Server 2003 & 2008; Red Hat Linux 5.5; ITIL Foundation

Managed wide-ranging remittance database and other money collection databases operations and ensured compliance with system security standards. The led database schema performed maintenance checks and troubleshoot performance issues. Created environment design, table structure, and indexing strategies to maximize performance and minimize maintenance. Formulated and structured database failure contingency plans for disaster recovery and enforced security for databases. Partnered with database developers to develop and implement procedures, functions, triggers/complex SQL queries, and T-SQL or PL/SQL for operational team use which supported the business from the database side. Validated customer backup and recovery strategies and delivered effective recommendations.

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Database Administrator and Forms & Report Developer (8/2008 – 5/2011)

[ORATECH, Egypt](#)

Technical Scope: Oracle 9i; Oracle 10g; Oracle 6i Forms and Reports; Windows Server 2003; Red Hat Linux 5.5

Supervised and regulated all aspects of database operations to assure high availability, scalability, and performance. Developed and evaluated storage strategies and disaster-recovery detailed plan for the company's operational database and delivered robust solutions that guaranteed recovery performance and high availability. Optimized legacy systems planned and coordinated sharing of resources amongst applications and modified existing databases.

Customer Service (8/2007 – 7/2008)

New Horizons, Egypt

Microsoft ASP .Net Web Developer & Database Developer (3/2005 – 7/2007)

[Freelancer, Egypt](#)

Technical Scope: Microsoft C# & Visual Basic; HTML; CSS; Microsoft SQL Server 2000 & 2005; Microsoft Access; Windows Server 2003

After my graduation, I participated with many customers to create their web services and handle a new enhancement of their applications, also moved some applications from Procedural to Object-Oriented Development.

Convert some applications from .Net Visual Basic to .Net C#.

EDUCATION

Bachelor's degree in Management Information Systems (MIS)

Egyptian Higher Institute of the Alexandria Academy of Administration and Accounting, Egypt

CERTIFICATIONS

Microsoft Certified Professional (MCP)

Microsoft Certified Solutions Associate (MCSA): SQL Server 2012 / 2014 Database Administration

Microsoft Certified Solutions Associate (MCSA): SQL 2016 Database Administration

Microsoft Certified Solutions Associate (MCSA): SQL 2016 Database Development

Microsoft Certified Solutions Expert (MCSE): Data Management and Analytics

TRAINING

Oracle Database 11g SQL

Oracle Database 11g PL/SQL

Oracle Database 11g Administration I & II

Oracle Database 10g Application Server

Oracle Database 12c Administration I & II

Oracle Database 12c Administration - RAC & Data Guard Integration