Ajay Kumar Dwivedi

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EMPLOYMENT

Technical Lead   Arcesium   May 2020 – Present

- Designed AlwaysOn RO Readiness solution using TSQL & PowerShell
- Planned/Automated/Tested Upgrade of Complex FCI Availability Group replicas in Replication from SQL 2014 to SQL 2019
- Designed PowerShell module to move Availability Group databases, and moved 38 TB data
- Provided Org Wide SQL Server Training
- Designed automation to setup remote Distributor in availability group using PowerShell
- Designed automation to setup Transactional replication using PowerShell
- Automated scripting out of entire SQL Server & Replications similar to Export-DbaInstance
- Created AlwaysOn Latency Grafana Dashboards
- Resolved High CPU/Query Regression/IO Latency/Blocking Alerts
- Benchmarking of Staging table architecture
- Manage PostgreSQL servers/databases
- Resolved High CPU issues using Resource Governor & XEvents in multitenancy environment

SQL Server DBA   TiVo   Feb 2018 – May 2020

- Implemented Database Inventory and Monitoring System using Python/Django/PowerShell/SQL Server
- Created Alert/Monitoring System using PowerShell
- Automated Server Health Check for users using native tools
- Automated Installation/Configuration/Uninstallation of SQL Servers using PowerShell

SQL Server DBA   United Health Group   Oct 2016 – Feb 2018

- Saved $1.0 million/year with Space Capacity Automation
- Handled VLDBs and took care of Core DBA Tasks

Sr. Database Developer   Ericsson India Global   June 2015 – Oct 2016

- Resolved SQL Server Performance Issue with Table Partitioning
- Mentored team and guided them with Query Performance Turning best practices
- Tripled Database server performance by Query Optimization

SQL Server Developer/DBA   TATA Consultancy Services   Mar 2011 – June 2015

- Saved Hours of DBA efforts with TSQL scripts for SQL Instance Migration activity
- Mentored 5 developers and designed Data Warehouse using DB2 & Pentaho
- Successfully migrated Billions of data with efficient Tsql programming

EDUCATION

Bachelor of Engineering   RGPV University, Bhopal   July 2006 – Apr 2010

OPEN SOURCE PROJECTS

- **SqlServer-Baselining-Grafana (2020)**. Automation to baseline SQL Server using TSQL, PowerShell, Perfmon & Grafana
- **Space Capacity Automation (2017).** Stored Procedure that would add/restrict data and log files on new and old disk drives automatically without DBA intervention. TSQL Programming

- **sp_HealthCheck (2018)**. Stored Procedure that would provide currently running queries, CPU and Memory usage, usage of Data and Log Volumes, space utilization of Data/Log files, Lead Blockers, and any Long Running request details. TSQL Programming
- **SQLDBATools (2018)**. PowerShell module to automate common DBA tasks. PowerShell.
- **DatabaseInventory (2018-19)**. Web UI with SQL Server backend that functions as database inventory for Infrastructure team.
- **SQL-Lab** (2019-Present). PowerShell & Python module to manage SQL Server Lab VMs on Virtual Box

ADDITIONAL EXPERIENCE AND AWARDS

- Instructor (2008 - 2010): Taught 4 batches of C/C++ in coaching institute
- Multiple Award for Automation (2016 - Present): Awarded multiple times for Space Capacity automation, Prod-Non-Prod DDL script comparison, Instance Migration automation and many more.
- Technical Blog Website: https://ajaydwivedi.com
- Online SQL Server Classes for L1/L2 Database Administrators & Developers

Languages and Technologies

- Technologies
  - HTML, CSS, SQL Server, Linux, CentOS8, Ubuntu, PostgreSQL
- Tools
  - Django, Bootstrap, JQuery, SQL Server, BrentOzarUnlimited First-Responder-Kit; SQLQueryStress; SQL Sentry Plan Explorer; Ola Hallengren Maintenance Solution; OStress; DiagManager; SQLNexus; Performance Monitor; SQL Profiler; SQL Trace; Clear Trace; Extended Events; ReadTrace; PAL; Django; CentOS; RHEL; Graphana; Zabbix
- Scripting
  - PowerShell, Python
- Operating System
  - Linux Mint, Ubuntu, Windows Desktop, Windows Server
- MVT/MVC Architecture