

Advanced Analytics

Azure Cognitive Services / Bot Framework / Artificial Intelligence
 Data Science Concepts, Frameworks, Best Practices
 Predictive Analytics / Data Science / Data Mining / Machine Learning
 R / Python / R Services / R Server / ML Services / R Studio
 Azure Machine Learning / ML Studio / Machine Learning Workbench
 Cloud Analytics
 Real-Time Analytics

Big Data and IoT

Azure Data Lake Store (ADLS) / Azure Data Lake Analytics (ADLA) / U-SQL
 Big Data / Hadoop / HDFS
 Cortana Intelligence Suite
 IoT and Near Real-Time Solutions/Streaming Data Processing
 Lambda Architecture / Kappa Architecture / Scalable Data Architecture
 NoSQL Database Solutions (CosmosDB, MongoDB)
 Open Source Solutions (Spark / Storm / Sqoop / Hive / Pig / HBase etc)
 Azure Data Factory / Azure HDInsight/ Azure Stream Analytics / Event Hub / IoT Hub / / IoT Edge / IoT Suite
 Big Data Testing / Automation / Deployments
 Graph Database Solutions, Polybase

Business Intelligence and Data Warehousing

Agile BI Practices / Analytics Platform system
 Azure SQL Data Warehouse / Azure Intelligent Systems Service
 BIML / Automation
 Data Lakes and Data Warehouses / Hybrid and Cloud BI Solutions
 MPP Data Warehousing: APS / PDW / Azure SQL DW
 Power BI Embedded / Power BI APIs
 Azure Data Catalog/ BAPI
 BI and DW Concepts / Frameworks / Best Practices
 BI and DW Testing / Automation / Deployments
 DW Data Model / Dimensional Model / Star Schema
 Dashboards / Scorecards / KPIs / Performance Management
 Data Storytelling / Data Visualization
 Enterprise Data Warehouse Solutions
 Information Security / Governance / Compliance
 MDX and DAX
 Master Data Management / Data Quality
 Master Data Services (MDS)
 Mobile BI / Mobile Report Publisher
 PolyBase / Data Federation
 Power BI Custom Visuals / Power BI Desktop / Power BI Service
 SQL Server Analysis Services (SSAS) and Azure Analysis Services/ (SSIS)/ SSRS
 SharePoint BI Solutions

Cloud Solutions

Azure Resource Manager / Automated Deployment / Infrastructure as Code
Hybrid and Cloud Database Solution
Azure Application Insights/ Azure Analysis Services/Azure DevTest Labs
Azure Key Vault/Azure Log Analytics/Azure Recovery Vault/Azure Service Fabric
Azure Storage/Azure SQL DB/ Azure VM / Azure SQL Managed Instance
Azure Third Party Solutions/Azure Virtual Networks / Gateway / Network Security /
ExpressRoute/Cloud-Based Database Solutions/Private Cloud / Azure Stack
Open Source on Azure (MySQL, PostgreSQL, Redis Cache, Cassandra and MariaDB)

Database Administration and Development

Columnstore Index
High Availability: Availability Groups / Mirroring / Clustering / Replication
In-Memory Solutions/Indexing
Internals: Storage Engine / Query Engine / Compression
New Features of SQL Server 2016/ 2017
Partitioning
Performance Monitoring / Tuning / Extended Events / Waits
PowerShell / Azure Automation / SMO (SQL Management Objects)
Query Store / Execution Plans / Query Optimization / Statistics
Adaptive Query Processing Family Features
SQL on Linux
Security: Access / Encryption / Auditing / Compliance / Handling Breaches
Tuning SQL Server for 3rd Party Applications (Dynamics, Sharepoint) Azure CosmosDB
Azure SQL Database
Azure Virtual Machines (IaaS) / VMWare / Virtualization / Consolidation Backup / Restore / Disaster Recovery
Database Development Best Practices/Database Maintenance/Database Management
Database Modelling / Database Design/Hardware, Storage
Hybrid Solutions/Installing / Upgrading SQL Server
Management and Development Tools (SSMS, SSDT, Visual Studio)
Resource Governor/Scalability/Service Broker/Stretch Tables/Elastic Solutions/Transact-SQL