M.Chandrasekhar Reddy
+1(945) 386-4026
Azure Data Engineer
Email: chandrasekharreddy654@gmail.com
LinkedIn: https://www.linkedin.com/in/chandrasekharreddy-246551138
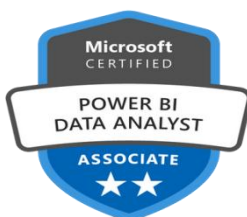
PROFESSIONAL SUMMARY

Having 13 years of experience in Microsoft Business Intelligence, Azure cloud and other ETL and Reporting tools. Looking forward to aspiring a challenging career, where in enhancing my technical knowledge and working hard towards the growth of the organization.

KEY STRENGTHS:

- Have worked on multiple **DW-BI projects** by using **SQL Server 2000/5/8/R2/12/14/16/19** suite of products **T-SQL, SSIS, SSAS, SSRS, MDX, Power BI and DAX** in designing, developing and Maintenance, Enhancement and Production/Application Support phases of the Projects according to client requirements.
- Exposure in Azure Data factory for ETL/ELT operations using Azure Datafactory (**ADF**), Azure Data Lake, HDInsight, Azure Databricks (**ADB**), Delta Lake, Blob Storage, **Azure Synapse Analytics**, Azure database, Azure Cosmos DB, Azure Key Vault, Logic Apps, Azure DevOps, Git and Azure Data Lake Analytics.
- Experience in creating Pipelines in ADF using Linked Services/Datasets/Pipeline to extract and load data from various source systems like **(Flat Files, Avro, JSON, Parquet, CSV files** and Relational tables from heterogeneous databases like SQL Server and DB2) from On-Prem systems to Azure PaaS services like Azure SQL, **ADLS**, Blob storage, Azure SQL Data warehouse to handle Full and Incremental data loads.
- Design and Implement Azure Data factory (ADF) ingestion pipelines to copy data from a REST endpoint using GET or POST methods.
- Developed Azure Databricks notebooks using **Python, Scala** and **Spark-SQL** for data transformations and aggregations from multiple file formats to uncover insights into the customer usage patterns.
- Strong Azure MSBI Architect/Develop Experience (ADL, Manage Instance, Azure SQL Server, Azure DW, Integration Runtime, Azure Analysis Service etc.)
- Experience in designing and implementation of cloud architecture on Microsoft Azure.
- Develop Azure Databricks notebooks to apply business transformations and perform data cleansing operations.
- Ingested huge volume and variety of data from disparate source systems into Azure

DataLake Gen2 using Azure Data Factory V2.

➢ Ability to ope-rationalize and apply CI/CD (Azure Devops) to the application on Databricks.

➢ Proficient in Azure Data Factory to perform Incremental Loads from Azure SQL DB to Azure Synapse.

➢ Knowledge of CI/CD, Azure ML productionization and Experienced in Data Warehouse migrations from on premise to Azure cloud using Azure data factory pipelines.

➢ Experience in Designing Pipelines in an Azure data factory using different activities for data movement and transformations and in Azure data lake storage usage

➢ Experience in building Data Integration, Workflow solutions and Extract, Transform and Load (**ETL**) solutions for data warehousing using SQL Server Integration Services (**SSIS**).

➢ Proven proficiency in Data Transformations like **Lookup, Derived Column, Conditional Split, Sort, data Conversion, Union All, Merge Join, SCD and OLEDB Command** to load data into SQL Server destination.

➢ Developed **OLAP Cubes** by using SQL Server Analysis Services (**SSAS**), and defined data sources, data source views, Dimensions, Measures, Hierarchies, Attributes, Calculations using multidimensional expression (MDX), Perspectives and Roles.

➢ Written **MDX Scripts** to create datasets to perform reporting and included interactive drill-down **reports, report models**.

➢ Created **Calculated Measures**, **Calculated Members** by writing **MDX** queries and good knowledge on Tabular model development and Data Analysis eXpressions (**DAX**) language.

➢ Experience with source code management tools like Microsoft **TFS**.

➢ Having good knowledge of **Power BI**, Power BI Desktop, Power Pivot and Power View Analytical tools.

➢ Expert knowledge in **code review** and **code analysis** to maintain code quality standards.

➢ Demonstrated ability to identify, assess and troubleshoot data issues and business problems. Experience in gathering requirements and preparing **HLD** and **LLD** documents.

➢ Good communication, inter-personnel skills, and good team player.

➢ Experience with **SCRUM** and similar **Agile** development/implementation methodologies.

➢ Self-motivated individual with strong analytical and problem-solving abilities, proactive, dedicated, enjoys learning new technologies and is willing to take on extra responsibilities to get work done.

Educational Profile:

➢ Completed M.C.A from Osmania University, Hyderabad (A.P) in 2009.

Certifications:

➢ PRO: Designing a Business Intelligence Infrastructure Using Microsoft SQL Server 2008

➢ TS: Microsoft SQL Server 2008, Business Intelligence Development and Maintenance.

➢ Oracle Database SQL Certified Expert.

Technical Skills:

Technologies stack	Azure Data Factory, Azure Datalake, Apache Spark2.4.0, Azure Logic Apps, Hive, Azure Databricks, Azure DevOps, Azure Synapse, Snowflake, Teradata, SSIS, SSRS, SSAS, MDX, DAX, MicroStrategy, ADLS, Azure SQL, Azure Stream Analytics, Azure Event Hub, Azure Machine Learning, App service, Logic apps, Event Grid, Services, Logic apps, Event Grid, Service Bus, Azure, ARM Templates, Jupytor Notebooks.
Databases	SQL Server 2000 thru 2019, Oracle 9i, Teradata 15x, Azure SQL DB, Sybase, Azure Cosmos DB, No SQL DB,
Languages	C, HTML,XML,ASP.NET4.0,C#,SQL,PL/SQL,PHP,Python,PySpark,Scala
Web Technologies	ADO.NET, HTML, XML, PHP, CSS, JavaScript
Scheduling	Autosys, Control-M, Smart Batch Server
Tools	Azure Boards, Toad, SQL Developer, Visio, TFS, JIRA, WinSCP, Microsoft Azure Storage explorer, Jenkins, Bitbucket, GitHub, Git.
Deployment Tool	Azure DevOps, Team Foundation Server (TFS)
Operating systems	Windows, UNIX
Visualization Tools	Tableau, Power BI
Domain Knowledge	FMCG, Finance, Retail, Insurance.

Projects Profile:

1. PROJECT NAME	NM PED	Apr-2023 to TillDate
CLIENT	NM PED	Plano,TX
ROLE	Sr Data Engineer	
ENVIRONMENT	Microsoft SQL Server 2019, SSDT-2015, Azure Data Lake &BLOB, Azure SQL, Azure data factory,Synapse and Oracle Apps,PowerBI.	

PROJECT DESCRIPTION

The New Mexico Public Education Department partners with educators, communities, and families to ensure that ALL students are healthy, secure in their identity, and holistically prepared for college, career, and life. Our mission is to ensure students in New Mexico are engaged in a culturally and linguistically responsive educational system that meets the social, emotional, and academic needs of ALL students.

The New Mexico Public Education Department believes in the strength of our state's diverse communities and in the inherent value of our multilingualism, resilience, creativity, culture, and compassion for one another.

RESPONSIBILITIES:
➢ Design and Develop Azure data factory,ASA Ingestion pipelines to load the data from different source systems into ADLS.

- ➢ Load the data from different sources like Excel, Oracle, SQL Server and DB2 etc.
- ➢ Created complex ETL Azure Data Factory pipelines using mapping data flows with multiple Input/output transformations
- ➢ Migrate existing SQL Server instances to a new Azure SQL database.
- ➢ Developed custom alerts using Azure Data factory, SQLDB and Logic apps.
- ➢ Working with Azure Data Factory Control flow transformations such as For Each, Lookup Activity, Until Activity, Web Activity, Wait Activity, If Condition Activity.
- ➢ Written complex T-SQL statements for retrieval of data and involved in performance tuning of TSQL queries.
- ➢ Excellent knowledge of integrating Azure Data Factory V2/V1 with a variety of data sources and processing the data using the pipelines, pipeline parameters, activities, activity parameters, manually/window based/event-based job scheduling.
- ➢ Migrated existing Oracle applications Oracle database codes to SQL server Managed Instance application specific databases.
- ➢ Created packages and functions.
- ➢ Creating the linked service for source and target connectivity based on the requirement. Created pipelines with extensive usage of activities like Copy, Metadata, For Each, If, Filter, Stored Proc, Mapping Data Flow etc. and Transformations like Lookup, Derived column, Select, Aggregate, Union all, Join, Alter row, Conditional Split etc.
- ➢ Have good experience working with Azure Blob and Data Lake storage and loading the data into SQL DWH.
- ➢ Fixing the existing bugs in the ETL system by doing a thorough investigation and applying the legitimate code changes.
- ➢ Created ADF and Synapse pipelines to ingest data from other systems.
- ➢ Experience with CI/CD pipelines and using test-driven frameworks.
- ➢ Ensured that any issues or concerns that arise during development are communicated effectively to the architects, so that they can address them and make any necessary changes to the architecture.

2. PROJECT NAME	Financial Services Compensation Scheme	Apr -2022 to Mar-2023
CLIENT	FSCS	London
ROLE	Azure Data Engineer	
ENVIRONMENT	Windows 2012 server, SSIS,SSRS, SQL Server 2016, C#,.Net 4.0, Azure,ADF,ADB ,Synapse.	

PROJECT DESCRIPTION

FSCS exists to protect customers of financial services firms that have failed. If the company you've been dealing with has failed and can't pay claims against it, FSCS can step in to pay compensation.

We make it as quick and easy as possible to make a compensation claim with our online claims service and it's completely free to claim with us. We know it can be a very stressful time, so our customer support team is here to help you every step of the way.

RESPONSIBILITIES:
- ➢ Created stored procedures and functions, which were used to implement business rules.
- ➢ Load the data from different sources like Excel, SQL Server, and Siebel sources etc.

- ➢ Development of packages according to the ETL specifications for the staging area & warehouse data loading using SQL server Integration services 2016.
- ➢ Written complex T-SQL statements for retrieval of data and involved in performance tuning of TSQL queries.
- ➢ Fixing the existing bugs in the ETL system by doing thorough investigation and applying the legitimate code changes.
- ➢ Created reports and delivering them to specific levels of managers based on Data-Driven subscriptions.
- ➢ According to the business requirements made the technical design and Knowledge Transfer documentation of the performed tasks.
- ➢ Tweaking the Visual Basic Access code in the legacy claims application of this client and making changes as per stakeholder's expectations.
- ➢ Interacting with the BA's and get the requirements and implement the required changes.
- ➢ Creating Storage containers and required folder structure for populating data in Azure Data Lake storage
- ➢ Extracting the required Data from OnPrem Server and loading into Data Lake using data factory pipelines in Azure Synapse workspace for different brokers
- ➢ Automating the pipelines execution by generating trigger using python script
- ➢ Design & Developing reports with SQL pool as data source using SSRS as per business templates and mappings
  On Boarding new data sources into Azure ADW

3. PROJECT NAME	BI Data Services International	Oct-2018 to Apr-2022
CLIENT	Assurant,Inc. (With Capgemini)	Hyderabad,IND
ROLE	Data Engineer	
ENVIRONMENT	Microsoft SQL Server 2012, 2016, SSDT-2012 &2015, Azure Synapse Analytics, Azure Data Lake &BLOB, Azure SQL, Azure data factory, Azure analysis services, BIDS,PowerBI.	

PROJECT DESCRIPTION

Assurant, Inc. is an American insurance company which provides a diverse set of specialty, casualty, life and health insurance. The company's four operating segments are Assurant Employee Benefits, Assurant Health, Assurant Solutions and Assurant Specialty Property. The Project is intended to deliver development activities and enhancements to the existing Assurant BI Applications per the business requirements. The project deals with five different lines of business of the client in the Insurance business.

RESPONSIBILITIES:
- ➢ Design and Develop Azure data factory Ingestion pipelines to load the data from different source systems into ADLS.
- ➢ Load the data from different sources like Excel, Oracle, SQL Server and DB2 etc.
- ➢ Created complex ETL Azure Data Factory pipelines using mapping data flows with multiple Input/output transformations
- ➢ Worked on Azure BLOB and Data Lake storage and loading data into Azure SQL Synapse analytics (DW).
- ➢ Migrate existing SQL Server instances to a new Azure SQL database.

- Extracted data from various relational and non-relational sources using Azure Databricks and Azure Datafactory ingestion pipelines for data orchestration.
- Developed custom alerts using Azure Data factory, SQLDB and Logic apps.
- Working with Azure Data Factory Control flow transformations such as For Each, Lookup Activity, Until Activity, Web Activity, Wait Activity, If Condition Activity.
- Excellent knowledge of integrating Azure Data Factory V2/V1 with a variety of data sources and processing the data using the pipelines, pipeline parameters, activities, activity parameters, manually/window based/event-based job scheduling.
- Developed streaming pipelines using Apache Spark with Python.
- Involved in design and development of metadata driven Azure Datafactory ingestion pipelines with triggers for optimal performance.
- Creating the linked service for source and target connectivity based on the requirement. Created pipelines with extensive usage of activities like Copy, Metadata, For Each, If, Filter, Stored Proc, Mapping Data Flow etc. and Transformations like Lookup, Derived column, Select, Aggregate, Union all, Join, Alter row, Conditional Split etc.
- Have good experience working with Azure Blob and Data Lake storage and loading the data into SQL DWH.
- Developed External tables in Azure SQL DWH using Polybase for reporting teams to consume the data.
- Experience in monitoring and troubleshooting pipelines execution in the Azure data factory.
- Fixing the existing bugs in the ETL system by doing a thorough investigation and applying the legitimate code changes.
- Created ADF and Synapse pipelines to ingest data from other systems.
- Implemented Complex PySpark and SparkSQL code in Databricks and invoking notebooks from ADF.
- Experience with CI/CD pipelines and using test-driven frameworks.
- lead a team of 8 people and I will be responsible for understanding the needs and expectations of various stakeholders, including clients, project sponsors, users, and other team members. Interacted effectively with each stakeholder, manage their expectations, and ensure that their concerns are addressed throughout the project.
- Ensured that any issues or concerns that arise during development are communicated effectively to the architects, so that they can address them and make any necessary changes to the architecture.
- Written MDX Scripts to create datasets to perform reporting and included interactive drill-down reports, report models.
- Created Calculated Measures, Calculated Members by writing MDX queries and good knowledge on Tabular model development and Data Analysis eXpressions (DAX) language.
- Completed   Snowflake: Hands on Essentials-Data Warehouse and   Snowflake: Hands on Essentials-Data Applications Badge certifications from Snowflake site.
- Good understanding of Snowflake architecture.
- Worked with snowSQL also have expertise on Cloning, Data sharing and Replication in snowflake.

4. PROJECT NAME	Rodan + Fields	Jan-2018 to Oct-2018
CLIENT	Rodan + Fields (With GSPANN Technologies)	Hyderabad,IND
ROLE	SQL/BI developer	
ENVIRONMENT	Windows 2012 server, SSIS,SSRS,SSAS,Power BI, MicroStrategy.	

PROJECT DESCRIPTION

Rodan and Fields is an American manufacturer and multi-level marketing company specializing in skincare products. It uses independent consultants, mostly women, to sell its products. Commissions are earned based on a multi-level marketing strategy. The independent consultants that sell skin care products are often recruited with the promise and potential for executive level incomes.

RESPONSIBILITIES:

➢ Created stored procedures and functions, which were used to implement business rules.
➢ Development of packages according to the ETL specifications for the staging area & warehouse data loading using SQL server Integration services 2012.
➢ Written complex T-SQL statements for retrieval of data and involved in performance tuning of TSQL queries.
➢ Experienced in azure Data Lake storage gen2 to store excel files, parquet files and retrieving using data by Blob API.
➢ Extracting the Data from Data Lake and Identifying the delta data using Databricks and loading into Azure Synapse SQL pool (ADW) using data factory pipelines.
➢ Fixing the existing bugs in the ETL system by doing a thorough investigation and applying the legitimate code changes.
➢ Monitoring subscriptions on a day-to-day basis in the MicroStrategy environment.
➢ According to the business requirements made the documentation of the performed tasks.
➢ Modify the existing SSAS cubes as per end user requirements for their report's validation with some calculations.
➢ According to the business requirements made the technical design and Knowledge Transfer documentation of the performed tasks.
➢ Implemented ETL process wrote and optimized SQL queries to perform data extraction and merging from SQL server database.
➢ Experience working for EMR cluster in AWS cloud and working with S3, Redshift, and Snowflake.
➢ Solid experience in using the various file formats like CSV, TSV, Parquet, ORC, JSON and AVRO.
➢ Collaborate with stakeholders to understand business requirements and define appropriate solution architecture in line with overall IT strategy and systems architecture
➢ Designed reports with usage of MDX calculations from SSAS Cubes.
➢ Designing the dimension and fact as per defined data warehouse architecture

5. PROJECT NAME	Long Term Incentive (LTI)	Sep-2014 to Sep-2017
CLIENT	L'Oréal (With KMRG Info Systems)	New York
ROLE	SQL/BI developer	
ENVIRONMENT	Windows 2008 server, SSIS, SQL Server 2008R2, SSRS 2008/2014.	

PROJECT DESCRIPTION

The purpose of the Long-Term Incentive (LTI) system is to provide shares/stocks to top performing employees of L'Oréal. LTI enables leadership to manage and analyze reports based on EPI%, Sal Incr% of the Divisions. The reports are generated based on the different types of exceptions that include No Exception, New in Current Year, Retire & Vested Term, Forfeiture After/Before Current Year Payment, In SIP no new award, Future Year Payout in the Current Year.

RESPONSIBILITIES:
- Involved in creation of tables, indexes, constraints, procedures and functions.
- Created stored procedures and functions, which were used to implement business rules.
- Development of packages according to the ETL specifications for the staging area & warehouse data loading using SQL server Integration services 2012.
- Implemented Event Handlers and Error Handling in SSIS packages and notified process results to various user communities.
- Primarily responsible for developing applications by collecting the requirements from end users and designing the requirements specifications and developing the SSIS packages to load data from heterogeneous systems and finally creating SSRS reports to suite the requirements.
- Helped in the integration of the front end with the SQL Server backend. In addition, guided in re-designing the application to use front-end .Net application web pages instead of the SSIS methodology imports.
- Written complex T-SQL statements for retrieval of data and involved in performance tuning of TSQL queries.
- Developed complex SQL queries using common table expressions (CTEs) to analyze the data.
- Helped in performance tuning of DB scripts, packages and long running reports
- According to the business requirements made the documentation of the performed tasks.
- Deployed and generated reports on to the server using the Reporting Services Report Manager.
- Involved in building the ETL architecture & Source to Target mapping to load data into the Data warehouse.

6. Project Name	ADS	Sep 2013 – Sep 2014
CLIENT	Deloitte (With NTT Data)	India
ENVIRONMENT	Windows 2008 server, SSIS, SQL Server 2012.	

The purpose of the Audit Deployment and Succession (ADS) system is to assist leadership to manage audit P/P/D client deployments and analyze workload. The system's use in client deployment helps Audit leaders achieve higher quality and operational results by ensuring our audit P/P/Ds are deployed with appropriate assignments. ADS is a system designed for practice leaders that brings together audit P/P/D and client data (assignments, operations, ratings, industry, experience, quality) into one location to assist practice leaders in effectively deploying P/P/Ds.

RESPONSIBILITIES:

- ➢ Worked as a production support consultant for the project.
- ➢ Helped the team as a sole SQL/BI Developer in re-designing the project from SharePoint application to Asp.Net applications.
- ➢ Helped in integration of the front end with the SQL Server backend.
- ➢ Written complex stored procedures and UDF's in SQL Server 2012.
- ➢ Developed complex SQL queries using common table expressions (CTEs) to analyze the data.
- ➢ According to the business requirements made the documentation of the performed tasks.
- ➢ Gathering the requirements from business stakeholders to develop the required Power BI Dashboards for the business using Power BI
- ➢ Creating Data model in Power BI which fulfils the business requirements for their reporting
- ➢ Creating new measures using DAX.
- ➢ Designing the SSRS reports as per business requirements and deploying them into the reporting server
- ➢ Developing Power BI dashboards as per business requirements and publishing them into Power BI service

7. PROJECT NAME	Deloitte University	Jun 2012 – Sep 2013
CLIENT	Deloitte (With NTT Data)	India
ENVIRONMENT	Windows 2008 server, SSAS, SSIS, SQL Server 2008 R2/2012.	

PROJECT DESCRIPTION

Deloitte has a building with an 800-room hotel, conference and learning center in Westlake, Texas. Deloitte University Portal will host the information/services for Deloitte University users (visitors / guests) like their stay, transportation, classes and meetings, social events, personal training and message details. Portal also gives you the ability to view classes, meetings, social events in a calendar view. Portal hosts news, testimonials, DU TV, Tours and Maps, Concierge chat, restaurant, The Bar and Store.

RESPONSIBILITIES:

➢ Involved in creation of tables, indexes, constraints, procedures and functions.
➢ Created stored procedures and functions, which were used to implement business rules.
➢ Helped in integration of the front end with the SQL Server backend.
➢ Written complex T-SQL statements for retrieval of data and involved in performance tuning of TSQL queries.
➢ Experience working with various relational databases such as MS SQL server, Oracle, Teradata, and Sybase.
➢ Creating stored procedures to load data into dimension and fact tables
➢ Create dashboards and interactive visual reports using reporting tools
➢ Developing the ETL packages to load data from source to destination as per business needs using SQL server integration services
➢ Creating the Measures as per definition and populating the fact tables with required grains using T-SQL,PL/SQL, Stored Procedures and functions.
➢ Designing SSAS Cube and defining the relationship between dimensions and measure groups in WIP Profitability.

8. PROJECT NAME	TERRA	Sep 2011 – May 2012
CLIENT	Hindustan Unilever Limited **(With NTT Data)**	India
ENVIRONMENT	Windows 2003 server, SSAS, SSIS, SQL Server 2008 R2.	

Description:

The objective of this project was to implement Multi-Echelon inventory optimization and demand sensing solutions for HUL. Terra is a third-party tool that is a bolt-on solution for SAP APO for improving forecast accuracy and safety stock estimation. It utilizes critical planning information like sales, forecasts, production and stock transfer transactions coupled with various master data pertaining to materials, factories, depots and customers to arrive at more refined plans. The core of this application is a complex statistical modeling engine that improves predictions in the short term and helps business to run simulations that help business to make the right choices to leverage or better their supply chain competitiveness.

Responsibilities:

➢ Development of packages according to the ETL specifications for the staging area & warehouse data loading using SQL server Integration services 2008.
➢ Primarily responsible for developing applications in SSIS as per Business Rules and features of the tool.
➢ Designing dimensions and creating user defined hierarchies as per requirement.
➢ Developing OLAP Cubes by using SQL Server Analysis Services (**SSAS**) for report development.
➢ Creating roles on cubes to provide security for the cube and dimensions.
➢ Tuning the SSAS Cubes in SQL Server 2008 using partitions and aggregations.
➢ Checking the SQL jobs every day.

- ➢ Involving Deployment of T-SQL scripts, SSAS cubes, SSIS packages, SSRS reports, SharePoint site and jobs from development to production.
- ➢ Creating stored procedures and indexes, which were used to implement business rules.
- ➢ Designing the SSRS reports as per business requirements and deploying them into the reporting server

9. PROJECT NAME	HLL – SPS & HLL OLAP	Nov 2010 – Sep 2011
CLIENT	Hindustan Unilever Limited **(With NTT Data)**	India
ENVIRONMENT	Windows 2003 server, SSAS, SSIS, SQL Server 2000/2008 R2.	

Description:

Hindustan Unilever Limited (HUL) is India's largest Fast-Moving Consumer Goods Company. Leadership in Home & Personal Care Products and Food & Beverages. HLL is built to analyze customer profitability. All the sales data is extracted from different source systems and consolidated under HLL Data warehouse. On top of the warehouse, SSAS databases are built so that users can slice and dice on the cubes.

Responsibilities:

- ➢ Developed OLAP Cubes by using SQL Server Analysis Services (SSAS), worked on performance tuning of SSAS Cubes in SQL Server 2000.
- ➢ Generated Reports from Cube with MS Excel Pivot functionality and troubleshoot the performance issues.
- ➢ Created number of DTS packages for data load and migrated and re designed them to SSIS packages in the 2008 version.
- ➢ Create dashboards and interactive visual reports using reporting tools
- ➢ Developing the ETL packages to load data from source to destination as per business needs using SQL server integration services
- ➢ Loading the data into dimensions and fact tables using ETL packages with required business rules.
- ➢ Developed OLAP Cubes by using SQL Server Analysis Services (SSAS), and defined data sources, data source views, Dimensions, Measures, Hierarchies, Attributes, Calculations using multidimensional expression (MDX), Perspectives and Roles.
- ➢ Work with users and team members at all levels for performance improvement and suggestions
- ➢ Involving Deployment of T-SQL scripts,PL/SQL SPs, SSAS cubes, SSIS packages, SSRS reports, SharePoint site and jobs from development to production.