

Gurvinder Singh
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TOOLS/METHODS

Microsoft SQL Server
Microsoft Visual Studio
SAP Design Studio
SAP HANA
Tableau
Erwin **Data** Modeler r8.2.5,
ER Studio,
MS Visio.
Teradata,
SAP BODS
Oracle9i/10g/11g/12g,
MS Access,
DB2, Sybase
PL/SQL.,
.NET, PL/SQL and SQL,
HTML, XML, UML's.
Cognos 8,
Microsoft Analysis Services,
Business Objects BOBJ,
OBIEE and Crystal Reports 9.
SQL assistant,
Toad, SSMS, Microsoft DTS/SSIS,
MS Office, MS Project.
Informatica Power Center 8.6/7.1/6.2,
Data Stage 8.5 and
Microsoft DTS/SSIS.
Windows, Unix and Linux.

EDUCATION

Bachelors of Engineering
(Electrical Engineering)
Thapar University, India.
Masters of Electrical and computer
Engineering
Binghamton University, New York

RELEVANT EXPERIENCE

Team Lead with 7+ years of experience in analysis, design, development, testing and implementation expertise in developing the **data** models for the reporting purposes and predictive analytics using Python, SQL, JavaScript, Salesforce, PL/SQL, Tableau, Oracle, SAP HANA, Microsoft SQL Server, SSIS Developer

SKILLS INVENTORY

- Experience with requirement gathering, conducting Joint Application Development (JAD) sessions, User Acceptance Testing (UAT), Gap analysis.
- Efficient in analyzing and documenting Business Requirement Documents (BRD) and Functional Requirement Document (FRD) along with Use Case Modeling and UML.
- Seasoned in creating reporting hierarchies and dashboard using Tableau and SAP Business Objects
- Worked with team of developers designed, developed and implement a BI solution for Sales, Product and Customer KPIs
- Experienced in Conceptual / Logical models and Physical database design for Online Transactional Processing (OLTP), Operational **Data** Store (ODS) and Online Analytical Processing (OLAP) systems.
- Well versed in Normalization (3NF) and De Normalization techniques for optimum performance in relational and dimensional environments.
- Worked extensively on Forward and Reverse engineering processes. Created DDL Scripts for implementing **Data** Modeling changes.
- Strong knowledge in **Data** mapping from source to target database schemas, **Data** Profiling, **Data** Cleansing and writing **data** scripts / programming of **data** conversion and researching complex **data** problems.
- Experience in identifying the Facts and Dimensions from the Enterprise Architecture for designing Star Schema and Snowflake Schema.
- Strong Database experience using Oracle, MS SQL, DB2, Sybase, Teradata, PL/SQL, Stored procedures, triggers and cursors.
- Proficient in oracle tools and using utility tools like SQL Server Management Studio, Toad for **Data** Analyst.
- Team Lead with excellent communication, analytical, written and presentation skills with strong aptitude towards learning new technologies.

CHRONOLOGICAL SUMMARY OF EXPERIENCE

Senior Data Engineer
GDIT, Remote/Hybrid

March 2022 – Present

- Researching New AWS solutions to create a new **Data** Lake structure including S3 buckets, Red Shift, Athena and Postgres database

- Implementing **data** Integrity checks for transactional **data** to identify bad **data** and send out alerts for bad records
- Developing a plan to automate reports for higher management in tableau to remove manual steps
- Documenting the existing database architect to reverse **engineer** in the new **Data** Lake solution
- Evaluating the existing applications compatibility to integrate with the new Reporting platform
- Optimizing some of the existing SQL, python scripts and implementing best code practices
- Standardizing the development, Code Review, Testing and deployment process for SDLC
- Working with the DBA team to create a pipeline between the Postgres and oracle database to transfer **data** seamlessly
- Automating the deployment process with the Database admin and developers to follow the standard format and streamline the approval process.

Team Lead
InsightGlobal, Remote
Projects:

July 2020 – March 2022

ROW- Retrieval Operations Workflow

- Helped the Team planning Sprints Cycle by splitting milestone into 2-week sprint cycle
- Worked closely with the TPO to align team's effort with business priorities
- Facilitated the **Data** Modeler with Datamart architect for creating Facts and Dimensions for new Reporting hierarchy
- Coordinated between the Database administrator and Development team for the new database deployments and patch fixes
- Worked with the DBA's for migrating the ETL database outside of the database server
- Migrated Excel Report SQL from central Datamart to Single source reporting server
- Created ETL packages to import flat files from new application
- Re-built old reporting logic from old system to new application
- Created tables and view for the new Fact and Dimension tables
- Worked closely with the Tech lead to translate technical requirements to SQL logic

CCV- Complex Chart Validation

- Worked along with the project manager and Business Analyst to close the technical gaps for the development team
- Defined ETL standards, processes, best practices, and project governance studied the schema used and the structures of source and target tables
- Led the Sprint planning and all the sprint ceremonies including pre-planning, planning, Retrospective and Client Demo
- Migrated **Data** from different domains to a single Source reporting system
- Built ETL pipelines to load **data** into the staging layer
- Created Facts and Dimension tables and views for the Reporting layer
- Re-worked the logic from legacy system and created new SQL procedures in new reporting server
- Wrote optimized SQL queries for the View and procedure
- Maintained the metadata and ETL packages in the central repository (TFS)

Senior Data Modeler/Engineer
TESSCO, Timonium, MD
Projects:

May 2015 – June 2020

SAP HANA Data Modelling

- Create views to encapsulate business rules
- Attribute views: Dimensions **data** joined with simple filters and simple calculated columns
- Analytic views: Simple aggregations using the single datasource and join with the attribute views to form a star schema
- Calculations views: using multiple datasources and complex calculations
- Created SQL procedure to take the daily snapshots of the metrics and high-performance reporting

Wrapper ETL job

- Pulled **data** from different datasources like ERP, Salesforce, flat files and API calls
- Created a Wrapper job using SAP BODS by chaining all the daily loads
- Developed a staging layer with all the validation rules and to capture all the failed records
- Used Database table for the input parameters and maintaining the job run logs
- Created email alerts for the failed records, **data** mismatches and job completions
- Developed python scripts to pull **data** from different PAI calls and used batch scripts to call those python scripts

Sales Dashboards and Reporting

- Created the Sales Dashboard using xs-engine that can be accessed through salesforce
- Built universes using the HANA views and other datasources and created reports using BOBJ and crystal reports
- Calculated different KPI's and metrics in the database using the sql procedure and stored in the tables
- Prepared **data** for the Tableau worksheet consumptions and Analysis office
- Created daily sales journal for the company using tableau

Oracle Database Development

- Migrated legacy databases by using ETL tools. Developed custom PL/SQL packages for gaps found in the ETL tools.
- Created in writing Database Procedures, Functions, Packages and Database Triggers
- Improved response time to queries by reviewing and improving indexes, partitioning tables, and fixing coding issues for the Integrated Management System
- Practice good analysis, design and development standards through reviews and workshops in collaboration with other team members, specifically the development team
- Apply focused development changes (Industrialization) across oracle database and see the changes applied through the life cycle of environments and testing into production via internal deployment tool

Predictive Analytics

- To predict when a customer is ready to purchase to help our seller to be more efficient
- Determined customer grouping for it and are clustered based on the buying frequency
- Customers buying a every other week were chosen
- Met with business to identify inputs that can indicate that a customer is ready to purchase
- Determined the **data** for those input in the database and exacted **data** from different sources loaded into Oracle
- Generated predictive model using SAP infinite insight/predictive analytics with Regression modelling i.e triple exponential smoothening
- Models being re-evaluated over the time as the historical **data** keeps increasing to improve the model efficiency and accuracy
- Exported model from Predictive Analytics is written into a sql procedure in HANA, which runs as a part of daily load
- Once the list is generated in HANA, **data** is imported into salesforce using Jitterbit (ETL tool)
- Customer accounts are classified as super-hot, hot and mild based on the score from the predictive model

Gurvinder Singh

- Laurel, MD, US

Contact Information

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Summary

With 7+ years of experience in analysis, design, development, testing and implementation expertise in developing Datamart and Creating ETL Pipelines. Highly experienced SQL and Python Scripting

Work History

Total Work Experience: 11 years

- **Senior Data Engineer** Global Dynamics
Mar 01, 2022
- **ETL Team Lead** Insightglobal
Jul 01, 2020
- **Data Engineer** TESSCO Technologies
May 01, 2015
- **Data Science Intern** Indian Arcylics Limited
May 01, 2012

Education

- **Masters** | SUNY, Binghamton

Skills

- **data engineering** - 8 years
- **data management** - 8 years
- **data modeling** - 8 years
- **data qa** - 8 years
- **data services** - 8 years
- **database** - 8 years
- **etl** - 8 years
- **infrastructure** - 8 years
- **kpi** - 8 years
- **python** - 8 years
- **qa** - 8 years
- **reporting** - 8 years
- **sap hana** - 8 years
- **scripting** - 8 years
- **sql** - 8 years
- **aws** - 4 years
- **snowflake** - 3 years
- **spark** - 3 years
- **databricks** - 2 years
- **data analysis**
- **data entry**
- **data warehousing**
- **databases**
- **erwin**
- **microsoft excel**
- **msql**
- **oracle sql developer**
- **plsql**
- **sas base**
- **sas programming**
- **visio**
- **tableau** - 7 years
- **time series** - 7 years
- **analytical skill** - 6 years
- **salesforce** - 5 years

Work Preferences

- Desired Work Settings: No Preference
- Likely to Switch: False
- Willing to Relocate: False

- Travel Preference: 25%
- Work Authorization:
 - US
- Work Documents:
 - Green Card Holder
- Desired Hourly Rate: 80+ (USD)
- Desired Salary: 160,000+ (USD)
- Security Clearance: False
- Third Party: False
- Employment Type:
 - Contract - Corp-to-Corp
 - Contract - Independent

Profile Sources

- linkedin: <https://www.linkedin.com/in/gurvinder-singh-597a8516b>
- linkedin: <https://linkedin.com/in/gurvinder-singh-47372aba>
- Dice:
<https://www.dice.com/employer/talent/profile/5989190d8d67474ad368b68e515aa9c3>