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(71)**Name of Applicant :**
1)CMR Institute of Technology
 Address of Applicant :KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

2)CMR COLLEGE OF ENGINEERING & TECHNOLOGY
3)CMR TECHNICAL CAMPUS
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Mrs J.Sinjini
 Address of Applicant :Assistant Professor, Computer Science and Engineering (Data Science), CMR Institute of Technology, Kandlakoya, Medchal, Hyderabad, Telangana, India. 501401., Hyderabad -----
2)Mr A.Rajesh
 Address of Applicant :Assistant Professor, Computer Science and Engineering (Data Science), CMR Institute of Technology, Kandlakoya, Medchal, Hyderabad, Telangana, India. 501401., Hyderabad -----
3)Mr C.Kannan
 Address of Applicant :Assistant Professor, Computer Science and Engineering (Data Science), CMR Institute of Technology, Kandlakoya, Medchal, Hyderabad, Telangana, India. 501401., Hyderabad -----
4)Mr. Venkateswara Reddy Reddyvari
 Address of Applicant :Associate Professor, Computer Science and Engineering, CMR College of Engineering & Technology Hyderabad -----
5)Mrs. R Suhasini
 Address of Applicant :Assistant Professor, Computer Science and Engineering, CMR College of Engineering & Technology Hyderabad -----
6)Dr. Punyaban patel
 Address of Applicant :Associate Professor, Computer Science and Engineering, CMR College of Engineering & Technology Hyderabad -----
7)Sanjib Kumar Nayak
 Address of Applicant :Asst. Prof., Computer Science and Engineering (Data Science), CMR Technical Campus Hyderabad -----
8)B Mohan Babu
 Address of Applicant :Asst. Prof., Computer Science and Engineering (Data Science), CMR Technical Campus Hyderabad -----

(57) Abstract :
 DYNAMIC SCALABLE GRAPH DATA INTEGRATION AND QUERY MANAGEMENT SYSTEM LEVERAGING ADVANCED ANALYTICS FOR COMPLEX DATASETS ABSTRACT The invention provides a dynamic scalable graph data integration and query management system (100) for complex datasets. The system comprises a graph-based data integration module (110) that dynamically integrates disparate data sources into a unified graph structure, utilizing advanced analytics to manage data variability and schema heterogeneity. A query management engine (112) processes and executes complex queries on this structure, employing advanced analytical techniques to optimize performance. The analytics optimization layer (114) analyzes query execution patterns and adjusts strategies for improved scalability. A user interface module (116) offers an intuitive platform for query formulation and result visualization. Additionally, a data synchronization subsystem (118) ensures real-time consistency across multiple data sources through dynamic updating mechanisms. This system enhances data integration and query management by leveraging advanced analytics and dynamic adjustments to handle complex, heterogeneous datasets efficiently. FIG. 1

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