

**SGK GOVERNMENT DEGREE COLLEGE**  
**VINUKONDA, PALNADU DISTRICT**



**Report on Remedial Coaching**

**for the Course DBMS**

**Academic Year 2021-22**

**CONDUCTED BY**  
**DEPARTMENT OF COMPUTER SCIENCE**

The program focused on aiding slow learners in "DataBase Management System," customizing the coaching to address the requirements of those who scored below 15 internal marks. Among the 40 students participating, Nine were identified as slow learners. Following the coaching sessions, Nine out of the Nine showed notable progress, obtaining a cumulative score surpassing 40 marks.

The following is the Classification of students into Slow Learners, Medium Learners and Advanced Learners.

| REGD.NO    | NAME OF THE STUDENT          | INTERNAL MARKS | EXTERNAL MARKS | Total | Learner Classification |
|------------|------------------------------|----------------|----------------|-------|------------------------|
| Y203099060 | ADDANKI MANI                 | 10             | 60             | 70    | Slow Learner           |
| Y203099061 | ATCHYUTHA LAHARI MANI        | 24             | 35             | 59    | Advanced Learner       |
| Y203099062 | BANAVATHU EDUKONDALU NAIK    | 10             | 54             | 64    | Slow Learner           |
| Y203099063 | BOYALAPALLI JAKARAI AH       | 19             | 45             | 64    | Medium Learner         |
| Y203099064 | CHANDOLU SAVITRI KUMARI(HIN) | 22             | 65             | 87    | Advanced Learner       |
| Y203099065 | INDLA CHERUVU SUMANJALI      | 16             | 60             | 76    | Medium Learner         |
| Y203099066 | JENNIPOGU ANITHA JOSHNA(HIN) | 22             | 58             | 80    | Advanced Learner       |
| Y203099067 | KANCHARLA VEERANJANEYULU     | 16             | 54             | 70    | Medium Learner         |
| Y203099068 | KATAKAM DIVYA                | 17             | 58             | 75    | Medium Learner         |
| Y203099069 | KOMMURI ADILAKSHMI           | 19             | 57             | 76    | Medium Learner         |
| Y203099070 | KNVD MURTHY                  | 17             | 42             | 59    | Medium Learner         |
| Y203099071 | KURRA VENKATA GOPI           | 10             | A              | A     | Slow Learner           |
| Y203099072 | MADDUKURI VENKATA KRISHNA    | 10             | A              | A     | Slow Learner           |
| Y203099073 | MVSS NAGALAKSHMI(HIN)        | 10             | A              | A     | Slow Learner           |
| Y203099074 | MALAPATI THIRUPATHIRAO       | 19             | 49             | 68    | Medium Learner         |
| Y203099075 | MALAPATI VEERANARYANA(HIN)   | 22             | 44             | 66    | Advanced Learner       |
| Y203099076 | NEELAM DIVYA YJOTHI(HIN)     | 22             | 63             | 85    | Advanced Learner       |
| Y203099077 | PALADUGU CHANDRA KALA        | 15             | 57             | 72    | Medium Learner         |
| Y203099078 | PAVULURI NAGA SEKHAR         | 13             | 54             | 67    | Slow Learner           |
| Y203099079 | PIDATHALA MAHESWARI          | 22             | 54             | 76    | Advanced Learner       |
| Y203099080 | R. MALLIKHARJUNARAO(HIN)     | 16             | 65             | 81    | Medium Learner         |
| Y203099081 | RAVULAPALLI YALLAMANDA       | 10             | 47             | 57    | Slow Learner           |
| Y203099082 | REDDYBOINA MAHESH            | 10             | 57             | 67    | Slow Learner           |
| Y203099083 | SAKI THIRUPATHAMMA           | 10             | A              | A     | Slow Learner           |
| Y203099084 | SATTEBOINA GOWTHAMI(HIN)     | 22             | 59             | 81    | Advanced Learner       |
| Y203099085 | SHAIK BAJI(HIN)              | 22             | 60             | 82    | Advanced Learner       |
| Y203099086 | SHAIK I KASIM SHAI DA        | 18             | 41             | 59    | Medium Learner         |
| Y203099087 | TIRUVAIPATI MALLIKARJUNA     | 15             | 58             | 73    | Medium Learner         |
| Y203099088 | TURIMELLA NAGESWARA RAO      | 10             | 65             | 75    | Slow Learner           |
| Y203099089 | YARRAGUNTLA AKHIL(HIN)       | 22             | 63             | 85    | Advanced Learner       |
| Y203099090 | ALLAM BAJI                   | 23             | 61             | 84    | Advanced Learner       |

|            |                                       |    |    |    |                  |
|------------|---------------------------------------|----|----|----|------------------|
| Y203099091 | BADINENI RAMAKRISHNA                  | 20 | 60 | 80 | Advanced Learner |
| Y203099092 | GALAM VEERA VENKATA<br>SIVA MANIKANTA | 23 | 52 | 75 | Advanced Learner |
| Y203099093 | GUMMA SRINIVAS                        | 18 | 59 | 77 | Medium Learner   |
| Y203099094 | KAGITHA CHARAN                        | 17 | 45 | 62 | Medium Learner   |
| Y203099095 | MONDITHOKA HOSANNA                    | 21 | 62 | 83 | Advanced Learner |
| Y203099096 | MUVVA GURUNADHAM(HINDI)               | 23 | 66 | 89 | Advanced Learner |
| Y203099097 | PACHIPULUSU VENKATESH                 | 10 | 57 | 67 | Slow Learner     |
| Y203099098 | SARANGU VENKATA SAI KRISHNA RAO       | 14 | 55 | 69 | Slow Learner     |
| Y203099099 | SURABHI ISSAK                         | 11 | 60 | 71 | Slow Learner     |

### List of topics taught during remedial coaching:

| S.No | Name of the Topic                | Brief Synopsis of the Topic                                                                                                                                                                                                                                                                                                                                                       |
|------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Introduction to DBMS             | An introduction to Database Management Systems (DBMS), covering the definition, purpose, components, and advantages. Understanding DBMS's role in data organization, retrieval, and management is fundamental for anyone dealing with large datasets and complex data relationships, providing a structured approach to data handling.                                            |
| 2    | Relational Data Model            | The relational data model is a fundamental concept in DBMS. This topic explains entities, attributes, relationships, and the principles of the relational model. It delves into keys, integrity constraints, and normalization techniques. Understanding this model is vital as it forms the basis for structuring databases efficiently, ensuring data accuracy and consistency. |
| 3    | SQL and Query Optimization       | SQL (Structured Query Language) is a powerful tool for managing relational databases. This topic covers SQL basics, querying, data manipulation, and optimization techniques. Efficient SQL usage is crucial for retrieving required data swiftly and optimizing queries, enhancing the performance of applications that interact with databases.                                 |
| 4    | Database Design and E-R Diagrams | Database design involves creating a blueprint that organizes data into tables and relationships. E-R (Entity-Relationship) diagrams are graphical representations of these relationships. This topic explores design principles, normalization, and E-R diagrams, ensuring that databases are structured optimally, reducing redundancy and maintaining                           |

|   |                                    |                                                                                                                                                                                                                                                                                                                                                                                                    |
|---|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |                                    | data consistency.                                                                                                                                                                                                                                                                                                                                                                                  |
| 5 | Transaction Management             | Transactions are crucial for database consistency and integrity. This topic covers transaction properties (ACID), states, and concurrency control. Understanding how transactions are managed in a multi-user environment is vital for ensuring data reliability and preventing issues like data corruption, making databases robust and dependable.                                               |
| 6 | Indexing and Data Retrieval        | Indexing involves creating efficient data structures to speed up data retrieval operations. This topic explores indexing techniques, query optimization, and different algorithms for fast data retrieval. A solid grasp of indexing is essential for designing databases that can quickly retrieve data, improving overall system performance.                                                    |
| 7 | Database Connectivity and Security | Database Connectivity refers to how applications connect and interact with databases. This topic covers APIs, drivers, and security mechanisms. Understanding secure connectivity and data protection measures, including access controls and encryption, is crucial to ensuring that sensitive data remains protected from unauthorized access, a critical concern in modern database management. |
| 8 | Normalization and Denormalization  | Normalization is the process of minimizing redundancy and dependency by organizing fields and table of a database. Denormalization, on the other hand, involves combining tables to minimize the number of joins. This topic covers normalization forms and denormalization techniques, aiding in designing databases that strike a balance between efficiency and relational organization.        |

|           |                               |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>9</b>  | Distributed Databases         | Distributed databases involve storing data across multiple locations or on multiple servers. This topic explores the concepts, advantages, and challenges of distributed databases. Understanding this is vital for applications dealing with vast amounts of data, providing scalability and reliability while optimizing data access and retrieval in a distributed environment.                                 |
| <b>10</b> | Data Warehousing and Big Data | Data Warehousing involves storing and managing large volumes of data for analytics and reporting. Big Data refers to handling massive amounts of data that traditional databases struggle to manage. This topic covers the concepts, architectures, and technologies involved in data warehousing and big data management. Understanding these is crucial in the era of data-driven decision-making and analytics. |

### Beneficiary Status of Slow Learners:

| REGD.NO    | NAME OF THE STUDENT             | INTERNAL MARKS | EXTERNAL MARKS | TOTAL | LEARNER CLASSIFICATION | OUTCOME OF REMEDIAL COACHING |
|------------|---------------------------------|----------------|----------------|-------|------------------------|------------------------------|
| Y203099060 | ADDANKI MANI                    | 10             | 60             | 70    | Slow Learner           | Benefitted                   |
| Y203099062 | BANAVATHU EDUKONDALU NAIK       | 10             | 54             | 64    | Slow Learner           | Benefitted                   |
| Y203099078 | PAVULURI NAGA SEKHAR            | 13             | 54             | 67    | Slow Learner           | Benefitted                   |
| Y203099081 | RAVULAPALLI YALLAMANDA          | 10             | 47             | 57    | Slow Learner           | Benefitted                   |
| Y203099082 | REDDYBOINA MAHESH               | 10             | 57             | 67    | Slow Learner           | Benefitted                   |
| Y203099088 | TURIMELLA NAGESWARA RAO         | 10             | 65             | 75    | Slow Learner           | Benefitted                   |
| Y203099097 | PACHIPULUSU VENKATESH           | 10             | 57             | 67    | Slow Learner           | Benefitted                   |
| Y203099098 | SARANGU VENKATA SAI KRISHNA RAO | 14             | 55             | 69    | Slow Learner           | Benefitted                   |
| Y203099099 | SURABHI ISSAK                   | 11             | 60             | 71    | Slow Learner           | Benefitted                   |

