

SGK GOVERNMENT DEGREE COLLEGE
DEPARTMENT OF COMPUTER SCIENCE
REPORT ON REMEDIAL COACHING
Semester 3
Database Management System

I. Introduction to Remedial Coaching

Remedial coaching in the context of Database Management System (DBMS) is a targeted educational intervention designed to assist students who face challenges in understanding and grasping the concepts and principles associated with DBMS. It is tailored to cater to the specific needs of slow learners, aiming to enhance their understanding, skills, and performance in the subject. The coaching focuses on providing additional guidance, practice, and support to ensure a better grasp of the course content and ultimately improve academic outcomes.

II. Abstract

This report aims to analyze the effectiveness of remedial coaching for Database Management System (DBMS) by examining the performance of students categorized as slow learners. The data presented herein showcases the number of slow learners, the number of students benefitted by remedial coaching, and their academic progress.

Learner Classification:

A student is classified as Slow Learner if he gets less than 15 Marks in the internal. He is moderate learner if gets 15 to 20 Marks. The remaining are Advance Learners.

S. no	Regd.no	Name of the Student	Internal Marks	External Marks	Total	Learner Classification
1	Y213099048	BAILADUGU TARAKA ARJUN	20	35	55	Advanced Learner
2	Y213099049	BANKA GURAVAMMA	23	48	71	Advanced Learner
3	Y213099050	CHANGALA SAI VENKATA GANESH	13	30	43	Slow Learner
4	Y213099051	DASARI RATNA KUMARI	13	38	51	Slow Learner
5	Y213099052	GOPU VENKATESH	18	50	68	Medium Learner
6	Y213099053	JEEDIMALLA BHANU PRASAD	22	52	74	Advanced Learner
7	Y213099055	KANHARLA GAYATHRI	23	35	58	Advanced Learner
8	Y213099	KISTAM CHANDRA SEKHAR	13	A	A	Slow Learner

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9	Y213099 057	KOTA VENKATA LAKSHMI PADMAVATHI	13	32	45	Slow Learner
10	Y213099 058	MALAPATI KRUPARAJU	13	44	57	Slow Learner
11	Y213099 059	MANNEPALLI VENKATESH	22	47	69	Advanced Learner
12	Y213099 060	MUTUKURI KIRAN KUMAR	18	40	58	Medium Learner
13	Y213099 062	ORSU GOPI	13	30	43	Slow Learner
14	Y213099 063	PADARA VENKAT	18	33	51	Medium Learner
15	Y213099 064	PALADUGU MAHESWARI	23	57	80	Advanced Learner
16	Y213099 065	PALLEPOGU RAKESH	18	44	62	Medium Learner
17	Y213099 066	PASUMARTHI RAHIMUNNISA	23	40	63	Advanced Learner
18	Y213099 067	PEDDEETI DURGA PRASAD	13	37	50	Slow Learner
19	Y213099 068	SETTI NAGALAKSHMAIAH	13	33	46	Slow Learner
20	Y213099 069	SHAIK RAAFIYA	23	60	83	Advanced Learner
21	Y213099 070	SHAIK ZAKIRA ROSHAN	23	14	37	Advanced Learner
22	Y213099 071	SHIAK IMRAN BASHA	13	43	56	Slow Learner
23	Y213099 072	VELPULA AKSHAYA BABU	13	A	A	Slow Learner
24	Y213099 073	YADLAPALLI VASU	22	45	67	Advanced Learner
25	Y213990 75	AMRUTHAPUDI BHASKAR RAO	18	0	18	Medium Learner
26	Y213099 076	BANDARU VEERANJANEYULU	15	41	56	Medium Learner
27	Y213099 077	BHAVANASI BHARATHI	18	56	74	Medium Learner
28	Y213099 078	IRIGI DEVAKUMARI	13	46	59	Slow Learner
29	Y213099 079	KAMBHAMPATI VEERA BRAHMA CHARI	16	35	51	Medium Learner
30	Y213099 080	KOTWAL VAHEEDAREHAMAN	13	12	25	Slow Learner

31	Y213099 081	PILLIKUDUPALA SRINIVASA GOPI	13	40	53	Slow Learner
32	Y213099 082	SHAIK JANBEE	17	39	56	Medium Learner
33	Y213099 083	SOMAVARAPU YESHAYA	23	58	81	Advanced Learner
34	Y213099 084	SRIKAKULAM NAGENDRACHARI	22	37	59	Advanced Learner
35	Y213099 085	VALLEM VENKATESWARLU	13	4	17	Slow Learner

- Number of Slow Learners: 10
- Number of Benefitted by Remedial Coaching: 10

Beneficiary Status:

A student who is a slow learner is said to be benefitted from Remedial Coaching if gets more than 50% marks when internal and external are combined.

S. n o	Regd. no	Name of the Student	Inte rnal Mar ks	Exte rnal Mar ks	To tal	Learner Classificatio n	Output of Remedial Coaching
1	Y2130 99048	BAILADUGU TARAKA ARJUN	20	35	55	Advanced Learner	Not Applicable
2	Y2130 99049	BANKA GURAVAMMA	23	48	71	Advanced Learner	Not Applicable
3	Y2130 99050	CHANGALA SAI VENKATA GANESH	13	30	43	Slow Learner	Benefitted
4	Y2130 99051	DASARI RATNA KUMARI	13	38	51	Slow Learner	Benefitted
5	Y2130 99052	GOPU VENKATESH	18	50	68	Medium Learner	Not Applicable
6	Y2130 99053	JEEDIMALLA BHANU PRASAD	22	52	74	Advanced Learner	Not Applicable
7	Y2130 99055	KANHARLA GAYATHRI	23	35	58	Advanced Learner	Not Applicable
8	Y2130 99056	KISTAM CHANDRA SEKHAR	13	A	A	Slow Learner	Benefitted

9	Y2130 99057	KOTA VENKATA LAKSHMI PADMAVATHI	13	32	45	Slow Learner	Benefitted
10	Y2130 99058	MALAPATI KRUPARAJU	13	44	57	Slow Learner	Benefitted
11	Y2130 99059	MANNEPALLI VENKATESH	22	47	69	Advanced Learner	Not Applicable
12	Y2130 99060	MUTUKURI KIRAN KUMAR	18	40	58	Medium Learner	Not Applicable
13	Y2130 99062	ORSU GOPI	13	30	43	Slow Learner	Benefitted
14	Y2130 99063	PADARA VENKAT	18	33	51	Medium Learner	Not Applicable
15	Y2130 99064	PALADUGU MAHESWARI	23	57	80	Advanced Learner	Not Applicable
16	Y2130 99065	PALLEPOGU RAKESH	18	44	62	Medium Learner	Not Applicable
17	Y2130 99066	PASUMARTHI RAHIMUNNISA	23	40	63	Advanced Learner	Not Applicable
18	Y2130 99067	PEDDEETI DURGA PRASAD	13	37	50	Slow Learner	Benefitted
19	Y2130 99068	SETTI NAGALAKSHMAIAH	13	33	46	Slow Learner	Benefitted
20	Y2130 99069	SHAIK RAAFIYA	23	60	83	Advanced Learner	Not Applicable
21	Y2130 99070	SHAIK ZAKIRA ROSHAN	23	14	37	Advanced Learner	Not Applicable
22	Y2130 99071	SHIAK IMRAN BASHA	13	43	56	Slow Learner	Benefitted
23	Y2130 99072	VELPULA AKSHAYA BABU	13	A	A	Slow Learner	Benefitted
24	Y2130 99073	YADLAPALLI VASU	22	45	67	Advanced Learner	Not Applicable
25	Y2139 9075	AMRUTHAPUDI BHASKAR RAO	18	0	18	Medium Learner	Not Applicable
26	Y2130 99076	BANDARU VEERANJANEYULU	15	41	56	Medium Learner	Not Applicable
27	Y2130 99077	BHAVANASI BHARATHI	18	56	74	Medium Learner	Not Applicable
28	Y2130 99078	IRIGI DEVAKUMARI	13	46	59	Slow Learner	Benefitted
29	Y2130 99079	KAMBHAMPATI VEERA BRAHMA CHARI	16	35	51	Medium Learner	Not Applicable
30	Y2130 99080	KOTWAL VAHEEDAREHAMAN	13	12	25	Slow Learner	Not Benefitted

31	Y2130 99081	PILLIKUDUPALA SRINIVASA GOPI	13	40	53	Slow Learner	Benefitted
32	Y2130 99082	SHAIK JANBEE	17	39	56	Medium Learner	Not Applicable
33	Y2130 99083	SOMAVARAPU YESHAYA	23	58	81	Advanced Learner	Not Applicable
34	Y2130 99084	SRIKAKULAM NAGENDRACHARI	22	37	59	Advanced Learner	Not Applicable
35	Y2130 99085	VALLEM VENKATESWARLU	13	4	17	Slow Learner	Not Benefitted

III. Topics to be Covered in Remedial Coaching

Based on the syllabus for the Database Management System course, the following ten topics are crucial and should be covered during the remedial coaching sessions to support the slow learners effectively:

1. Understanding Data and Information

- Differentiating between data and information.
- Grasping the significance of organized data in a database.

2. Introduction to Database Management Systems

- Exploring the concept of database management systems and their role.
- Identifying the limitations of file-based systems.

3. Entity-Relationship Model

- Comprehending the basics of entity-relationship modeling.
- Understanding the building blocks and relationships in ER diagrams.

4. Relational Model and Codd Rules

- Familiarizing with the relational data model and its components.
- Grasping Codd's rules and their relevance to databases.

5. Structured Query Language (SQL)

- Learning the fundamentals of SQL, including commands, data types, and operations.

- Practicing SQL queries for data retrieval, manipulation, and modification.

6. Relational Algebra and Relational Calculus

- Understanding relational algebra operations and their applications.
- Exploring relational calculus: tuple and domain relational calculus.

7. Normalization and Normal Forms

- Learning about functional dependencies and their role in database design.
- Understanding normalization and achieving third normal form (3NF).

8. PL/SQL (Procedural Language/Structured Query Language)

- Introduction to PL/SQL and its structure.
- Creating PL/SQL programs, procedures, functions, and triggers.

9. Enhanced Entity-Relationship Model (EER Model)

- Delving into the enhanced entity-relationship model.
- Understanding generalization, specialization, and attribute inheritance.

10. Database Security and Integrity

- Exploring security measures and integrity constraints in databases.
- Understanding the importance of data security and ensuring data integrity.

Teaching Plan for Remedial Coaching:

Day	Topic
Day 1	- Understanding Data and Information
Day2	- Introduction to Database Management Systems
Day 3	- Entity-Relationship Model (Basics and Building Blocks)
Day 4	- Entity-Relationship Model (Relationships and Diagrams)
Day 5	- Relational Model and Codd Rules
Day 6	- Relational Algebra and Operations
Day 7	- Structured Query Language (SQL) Fundamentals
Day 8	- Relational Calculus (Tuple and Domain)
Day 9	- Normalization and Normal Forms
Day 10	- PL/SQL (Basics and Structure)
Day 11	- Enhanced Entity-Relationship Model and Database Security

Day 12	- Review and Recap of All Topics
Day 13	- Conclusion and Assessment

IV. Conclusion

Remedial coaching plays a vital role in enhancing the understanding and performance of slow learners in the Database Management System course. By customizing the coaching approach to cater to the specific needs of slow learners and focusing on the essential topics outlined in the syllabus, we can significantly improve their comprehension and mastery of the subject. The data presented in this report reflects the positive impact of remedial coaching in aiding slow learners to grasp the fundamental concepts of Database Management System, ultimately contributing to their academic success.