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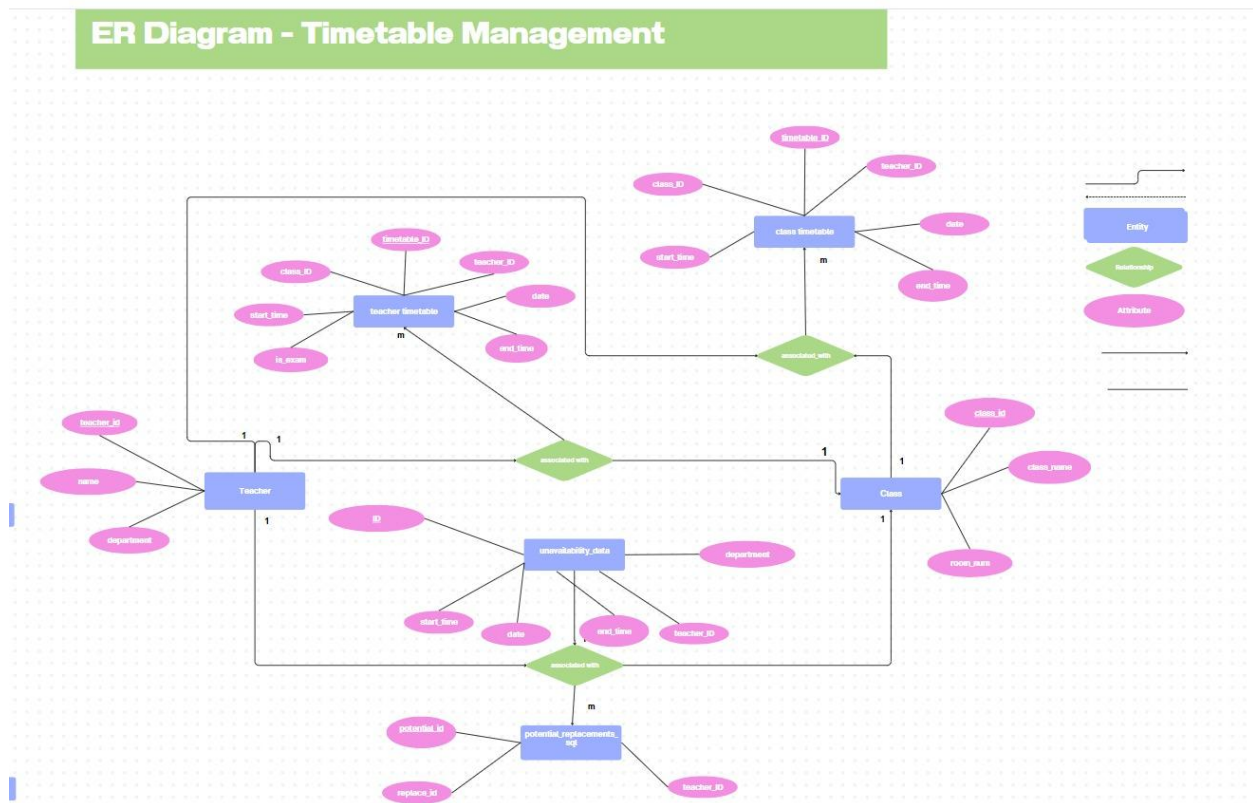
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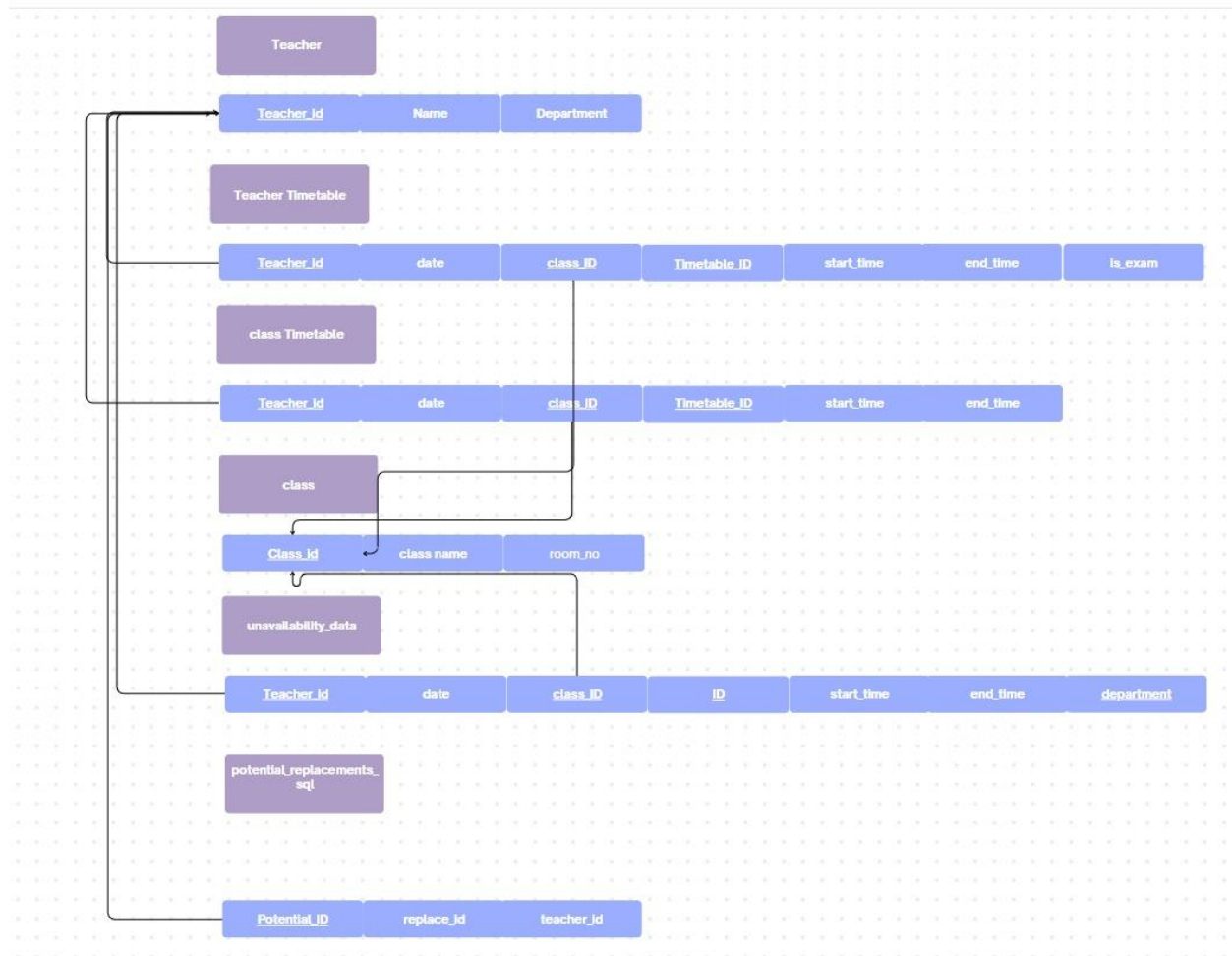
DBMS MINI-PROJECT

STUDENT TIME TABLE MANAGEMENT

E-R DIAGRAM



RELATIONAL SCHEMA



QUERY OUTPUTS:

1.View:

Show Teachr_table Table

Teachr_table Table

	teacher_id	name	department
0	4	abc	MI
1	5	ddd	MI
2	6	ooo	MI
3	7	oooqqqq	SE
4	8	ooovhgv	SE
5	9	hvhgv	SE
6	10	mmmmm	SE
7	11	chambrlein	DBMS
8	12	Suarez	DBMS
9	13	Xavi	DBMS

2. Add:

Add Data

Select Table (Add)

teachr_table

Name:

CHARLES

Department:

MI

Add

Teachr_table Table

	teacher_id	name	department
2	6	ooo	MI
3	7	oooqqqq	SE
4	8	ooovwhjv	SE
5	9	hvhgv	SE
6	10	mmmmm	SE
7	11	chambrlein	DBMS
8	12	Suarez	DBMS
9	13	Xavi	DBMS
10	14	Ceballous	DBMS
11	15	CHARLES	MI

3.Delete:

Delete Data

Select Table (Delete)


teachr_table

Enter teacher_id Value:

6

Delete

Show Teachr_table Table



Teachr_table Table

	teacher_id	name	department
0	4	abc	MI
1	5	ddd	MI
2	7	oooqqqq	SE
3	8	ooovhvjv	SE
4	9	hvhgv	SE
5	10	mmmmm	SE
6	11	chambrlein	DBMS
7	12	Suarez	DBMS
8	13	Xavi	DBMS
9	14	Ceballous	DBMS

4. View based on day:

View Timetable by Day

Select Table to View

teacher_timetable

Date:

2023/11/25

View Timetable

Timetable for teacher_timetable on 2023-11-25:

0	1	2	3	4	5	6
9	11	4	2023-11-25	13:00:00	14:00:00	1
10	12	5	2023-11-25	13:00:00	14:00:00	1

6. Replacement in case of absence of a teacher:

Teacher Timetable Management

Update Teacher Availability

Enter Teacher ID:

5

Set Availability:

☒ 0

☐ 1

Update Availability

Update Unavailability Table

Get Teachers in Same Department

Get Final Replacements

Current Teacher Timetable

	timetable_id	teacher_id	class_id	date	start_time	end_time	is_available
0	1	2	2	2023-11-24	09:18:00	10:00:00	1
1	2	3	2	2023-11-24	12:00:00	14:00:00	1
2	3	4	4	2023-11-24	09:18:00	10:00:00	1
3	4	5	2	2023-11-24	13:00:00	14:00:00	0
4	5	7	3	2023-11-24	09:22:00	09:22:00	1
5	6	8	2	2023-11-24	13:00:00	14:00:00	1
6	7	15	5	2023-11-24	12:00:00	13:00:00	1

Non-Clashing Replace IDs

	Teacher ID	Non-Clashing Replace IDs
0	5	4 6
1	11	13 14

8. Clashing timetable , teacher ids

Timetable Clashes Checker

Check Timetable Clashes

Timetable Clashes:

	teacher_id1	teacher_id2
0	3	5
1	3	8
2	5	3
3	5	8
