DAM KINDERGARTEN

CONTENTS

1 BUSINESS DESCRIPTION

1.1 BUSINESS BACKGROUND

Dam Kindergarten is located in the city of Kaunas, Lithuania. As we know that every society has the right to have full place of child entertainment such a nursery and kindergarten, Dam is doing its best to cover all the needs of Dam's child and all the different parts of Dam society, what makes Dam different from the other kindergartens is, it has a powerful management team that takes place the management of the kindergarten. It has also a well-organized environment such as Playground, Masjid, and Classes for education, and Full Equipment for playing.

Presently, Dam uses everything in manually. Dam use the following equipment's a normal book that has a closely 500 hundred pages for registration of the new intakes, pens, rulers, and also a dry stamp for a confirmation a valid form and all letters from Dam. A printer that can only print a normal colorless paper, Dam has a normal class and they are classified into (Pre-Kg, KG1, KG2, KG3,)

And also Dam has 4 departments with in different roles except the watchman room and some others like Masjid (Department-1 office of the principal, Department-2 classrooms and learning center, Department-3 all the dramatic and playground center such as listening watching and so on, Department-4 break time and food center is a place that the children will have their break time).

1.2 PROBLEMS. CURRENT SITUATION

The one and only main problem that Dam is facing so far is manually data entry. Dam is urgently needing a full software that can handle all the complex manually data entry such as registration of the new student, fee payments, retrieving updating the reports and records of the student and all the other required information.

1.3 BENEFITS FROM IMPLEMENTING A DATABASE. PROJECT VISION

This Database project which will smooth out the application process, and will be able to enhance and make easier all the necessary work.

In order to execute on Dam's business model, the Company needs to perform several functions which is why we need a Database to augment it. Dam anticipates using the functionalities of this Database to:

Service Functions

i) To register and manage the records and all necessary information of each and every child on the Dam kindergarten
ii) To Register all Dam kindergarten Members of Staff
iii) To provide full range of reports and records that will satisfy informational requirements
iv) To keep track all the financial transactions (payments) at Dam
v) To create a backup (weekly-daily-monthly)
vi) To create authentication for all users
vii) To create access control for all users

2 MODEL DESCRIPTION

2.1 DEFINITIONS & ACRONYMS

Relation: In general, a relation is a table, i.e., data is arranged in rows and columns. A relation has the following properties:

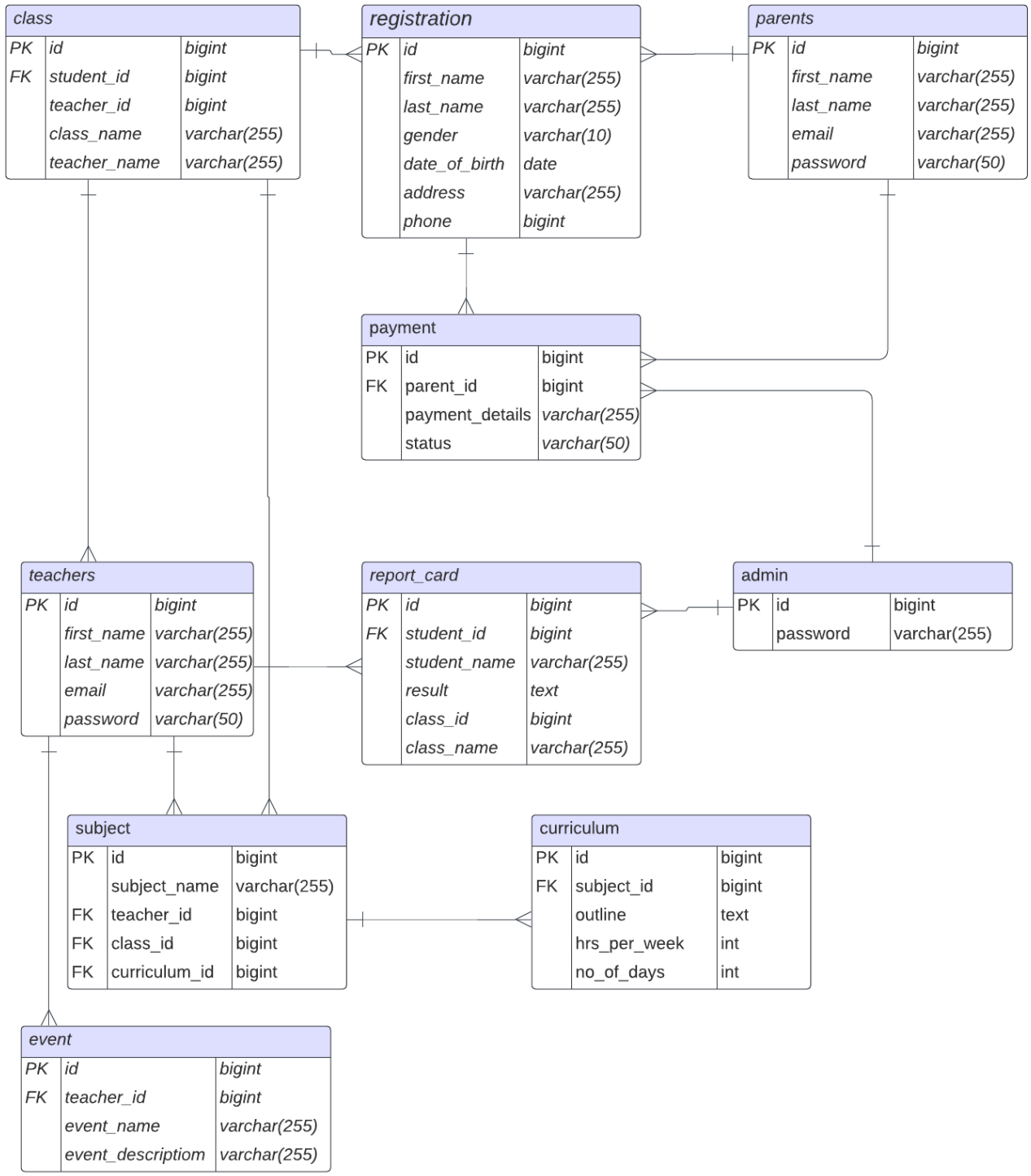
Tuple: The rows of tables in a relationship are generally termed as Tuples.

Attributes: The columns or fields of a table is termed as Attributes.

Degree: The number of attributes in a relation determines the degree of relation. A relation having three attributes is said to have a relation of degree 3.

Cardinality: The number of tuples or rows in a relation is termed as cardinality.

2.2 LOGICAL SCHEME


class
PK id bigint
FK student_id bigint
teacher_id bigint
class_name varchar(255)
teacher_name varchar(255)
registration
PK id bigint
first_name varchar(255)
last_name varchar(255)
gender varchar(10)
date_of_birth date
address varchar(255)
phone bigint
parents
PK id bigint
first_name varchar(255)
last_name varchar(255)
email varchar(255)
password varchar(50)
payment
PK id bigint
FK parent_id bigint
payment_details varchar(255)
status varchar(50)
teachers
PK id bigint
first_name varchar(255)
last_name varchar(255)
email varchar(255)
password varchar(50)
report_card
PK id bigint
FK student_id bigint
student_name varchar(255)
result text
class_id bigint
class_name varchar(255)
admin
PK id bigint
password varchar(255)
subject
PK id bigint
subject_name varchar(255)
FK teacher_id bigint
FK class_id bigint
FK curriculum_id bigint
curriculum
PK id bigint
FK subject_id bigint
outline text
hrs_per_week int
no_of_days int
event
PK id bigint
FK teacher_id bigint
event_name varchar(255)
event_descriptiom varchar(255)

2.3 OBJECTS

1. registration Table

The registration table will store all details for all the staffs and children handling the kindergarten.

Table Name	Field name	Field Description	Data Type
job	id	PK	bigint
	First_name		Varchar(255)
	Last_name		Varchar(255)
	gender		Varchar(10)
	Date_of_birth		date
	address		Varchar(255)
	phone		bigint

Tables Relations Comments

Example with filled data

id	First_name	Last_name	gender	Date_of_birth	address	Company_id
1	John`	Doe	Male	22/02/1988	3, Laisves Al	834577222

2. parents Table

The parents dictionary contains a list of all the information for parents.

Table Name	Field name	Field Description	Data Type
parents	id	PK	bigint
	First_name		Varchar(255)
	Last_name		Varchar(255)
	email		Varchar(255)
	password		Varchar(50)

Example with filled data

id	First_name	Last_name	email	password
1	John`	Anoem	slass@gmail.com	Swed#2123

3. class Table

This subject area contains all the tables needed to store information about all the classes.

Table Name	Field name	Field Description	Data Type
class	id	PK	bigint
	Student_id	FK	bigint
	Teacher_id	FK	bigint
	class_name		Varchar(255)
	Teacher_name		Varchar(255)

Example with filled data

id	Student_id	Teacher_id	Class_name	Teacher_name
1	23	45	KG1	Doe Jillake

4. payment Table

The payment table lists all the payment transactions that were done.

Table Name	Field name	Field Description	Data Type
payment	id	PK	bigint
	Parent_id	FK	bigint
	Payment_details		Varchar(255)
	status		Varchar(50)

Example with filled data

id	Parent_id	Payment_details	status
1	2321	Fist year tuition	Paid

5. report_card Table

The report_card table shows the result and progress of each child after each semester.

Table Name	Field name	Field Description	Data Type
Report_card	id	PK	bigint
	Student_id	FK	bigint
	Student_name		Varchar(255)
	result		text
	Class_id	FK	bigint
	Class_name		Varchar(255)

Example with filled data

id	Student_id	Student_name	result	Class_id	Class_name
1	22	Dre Load	Overall - 60%	5	KG2

6. teachers Table

The teachers dictionary contains a list of all the information for teachers.

Table Name	Field name	Field Description	Data Type
teachers	id	PK	bigint
	First_name		Varchar(255)
	Last_name		Varchar(255)
	email		Varchar(255)
	password		Varchar(50)

Example with filled data

id	First_name	Last_name	email	password
1	John`	Anoem	slass@gmail.com	Swed#2123

7. admin Table

The admin table contains admin id and password for administrative priviledges.

Table Name	Field name	Field Description	Data Type
admin	id	PK	bigint
	password		Varchar(255)

Example with filled data

id	password
1	Driops&&123

8. subject Table

The subject table contains all the subjects the children will be taking during their study.

Table Name	Field name	Field Description	Data Type
subject	id	PK	bigint
	Subject_name		Varchar(255)
	Teacher_id	FK	bigint
	Class_id	FK	bigint
	Curriculum_id	FK	bigint

Example with filled data

id	subject_name	Teacher_id	Class_id	Curriculum_id
1	Maths	3	1	22

9. curriculum Table

The curriculum table stores all the details about the subject outline

Table Name	Field name	Field Description	Data Type
curriculum	id	PK	bigint
	Subject_id	FK	bigint
	outline		text
	Hrs_per_week		int
	No_of_days		int

Example with filled data

id	Subject_id	outline	Hrs_per_week	No_of_days
1	56	Writing numbers 1 - 10	3	2

10. event Table

The events table lists all the events that has been scheduled for the calendar year.

Table Name	Field name	Field Description	Data Type
event	id	PK	bigint
	Teacher_id	FK	bigint
	Event_name		varchar
	Event_description		int

Example with filled data

id	Teacher_id	Event_name	Event_description
1	11	End of the year party	Organized by all class teachers to celebrate the end of the calendar year