

Relational Databases



Student

and

Student

ID

Card

Explanation: Each student in a school or university is assigned one unique Student ID card, and each card belongs to only one student.

Example:

Student:

Emily

Roberts

Student

ID

Card:

STU202410001

Why

is

this

1:1?

A

student

has

only

one





ID






card.

An

ID card belongs to only one student.

Answered 1:1

 	school student
	studentid : int(4)
	studentname : varchar(50)

 	school studentidcard
	id : int(4)
	countryname : varchar(50)
	studentid : int(4)



Extra options

studentid	studentname	countryname
1	Emily Roberts	somaliland
2	john cabdi	turkey
3	yahya	somalia
4	asma	kenya
5	mustafe	mexico
6	xalimo	poland

Parent

**and
Children**

Explanation:

A

parent

can

have

multiple

children,

but

each

child

has

only

one biological mother and one biological father.

Example:

Parent:

Mrs.

Johnson

Children:

Emma,

Olivia,

Liam

Why

is

this

1:M?

One

parent

?

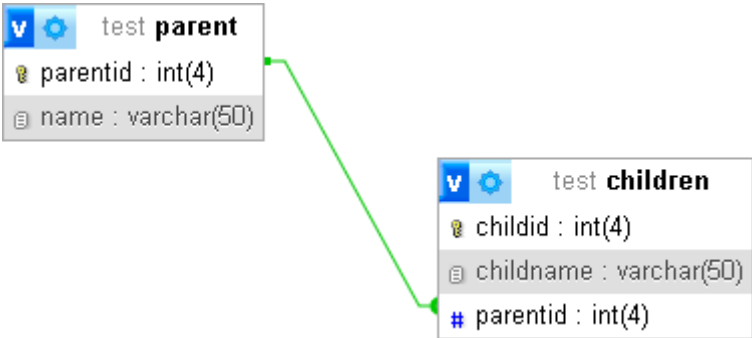
Multiple

children.

E

ach child ? Only one biological mother

Answered 1:M



parentid	name	childname
1	Mrs. Johnson	Emma
1	Mrs. Johnson	Olivia
1	Mrs. Johnson	Liam

Teachers

and

Subjects

Explanation:

A

teacher

can

teach

multiple

subjects,

and

a

subject

can

be

taught

by multiple teachers.

Example:

Teachers:

Mr.

Smith,

Ms.

Johnson,

Dr.

Lee

Subjects:

Biology,

Chemistry,

Physics

Why

is

this

M:M?

Mr.

Smith

can

teach

Biology

and

Chemistry.

Ms.

Johnson

can

teach

Physics

and

Chemistry.

The

Chemistry

subject

can

be

taught

by

both

Mr.

Smith

and

Ms.

Johnson.

The

Biology

subject

can

be

taught

by

Mr.

Smith

and

Dr.

Lee.

Answered M:M

