

Database Design Notations

The screenshot shows the Visual Paradigm interface with a database design. Two entities are defined: **Photo** with attributes **ID** (integer(10), PK), **Title** (varchar(255)), and **UploaderID** (integer(10), FK); and **Uploader** with attributes **ID** (integer(10), PK), **Name** (varchar(255)), **PhoneNum** (varchar(255)), and **Address** (varchar(255)). A one-to-many relationship is shown between the **ID** of **Photo** and the **ID** of **Uploader**. Below the diagram, the 'Data of Uploader' table is displayed with two records.

ID (PK)	Name	PhoneNum	Address
1	Chris Wong	252-608-5628	572 Lost Lake Crossing
2	Wanda A. Allison	808-839-2217	2017 Green Impasse

There are two records in the **Uploader** entity.

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The screenshot shows the Visual Paradigm interface with the same database design as the previous slide. The 'Data of Photo' table is now displayed, showing nine records. A red arrow points from the text 'The Photo entity references the Uploader entity.' to the **UploaderID** column in the table, which serves as a foreign key to the **Uploader** entity's **ID**.

ID (PK)	Title	UploaderID (FK)
1	The tram	1
2	Little kitten	1
3	Chamomile	1
4	New bus route	2
5	Fetty pier 9	1
6	The coast	1
7	Rock climbing	2
8	Fountain	1
9	Subset	2

The **Photo** entity references the **Uploader** entity.