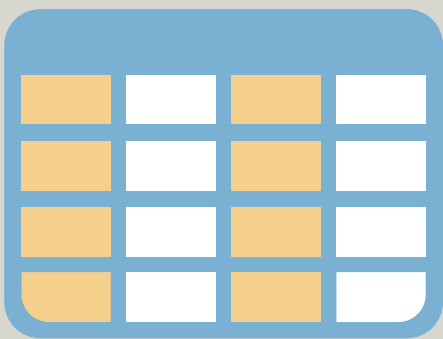


Database View

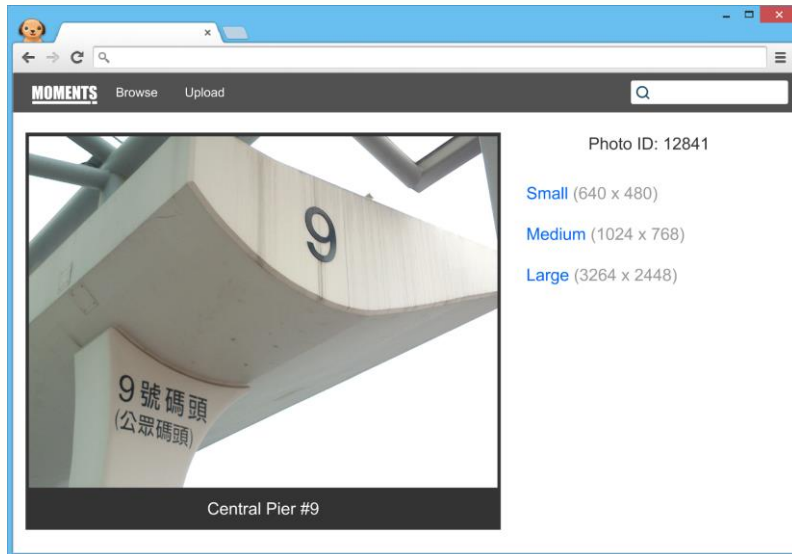
Database View



Database view is a virtual table that provides the result set of a pre-established query command.

Database View

Concept of DB View



Database View

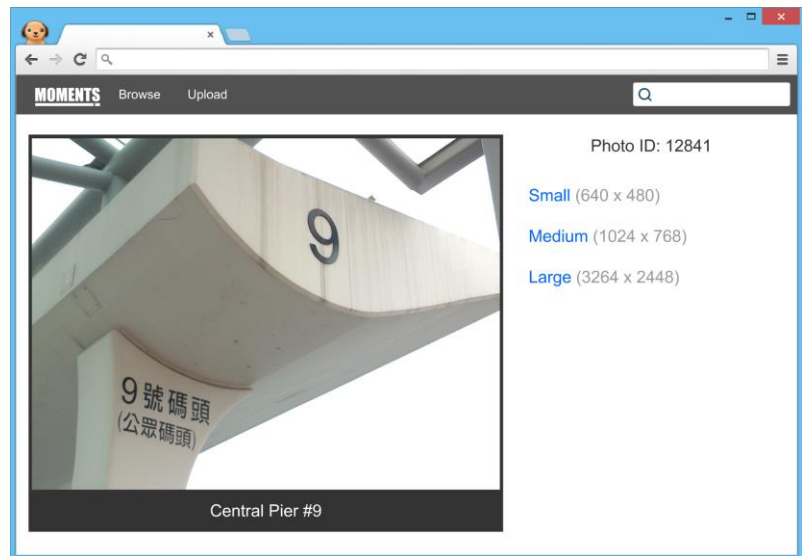
Concept of DB View

Photo

ID : number (5)
Title : varchar (120)
Description : varchar (255)
Privacy : varchar (20)
UploadDate : date
View : number (10)
ImagePath: varchar (50)



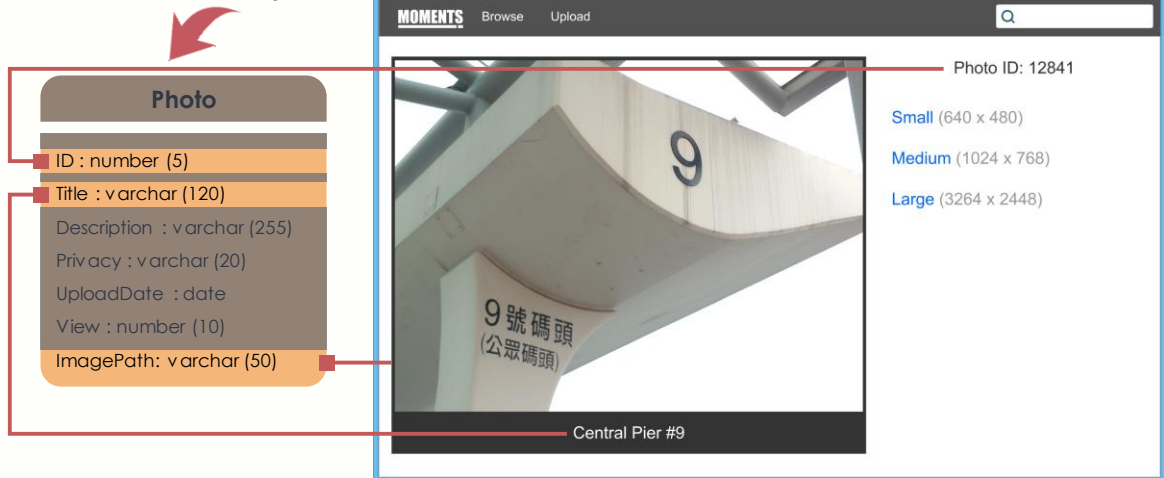
Source of data



Database View

Concept of DB View

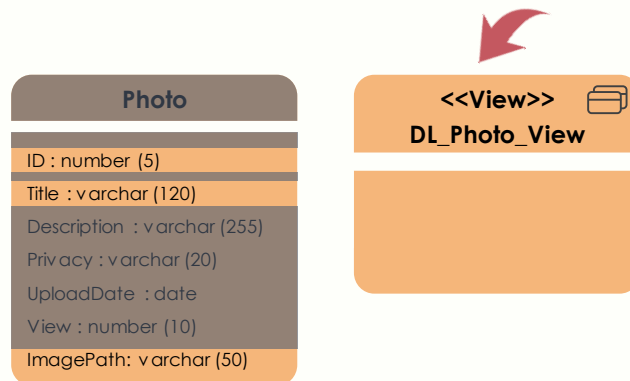
Just some columns are queried



Database View

Concept of DB View

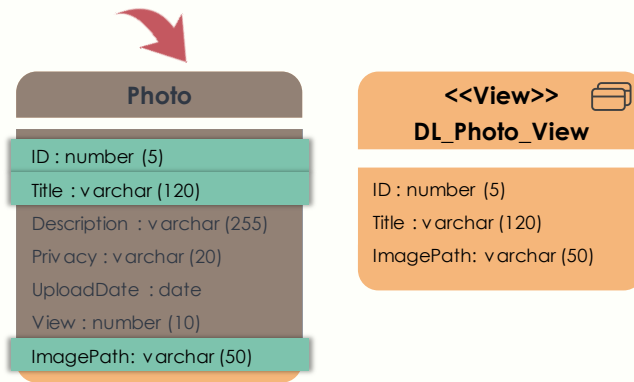
A database view specialized for querying the data required by the download page



Database View

Concept of DB View

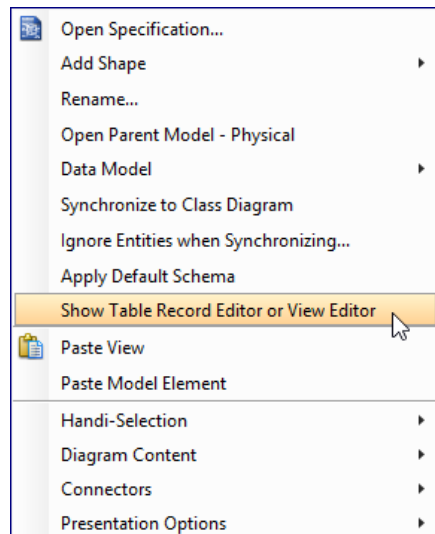
Add the columns needed by the view



Database View

Creating a View

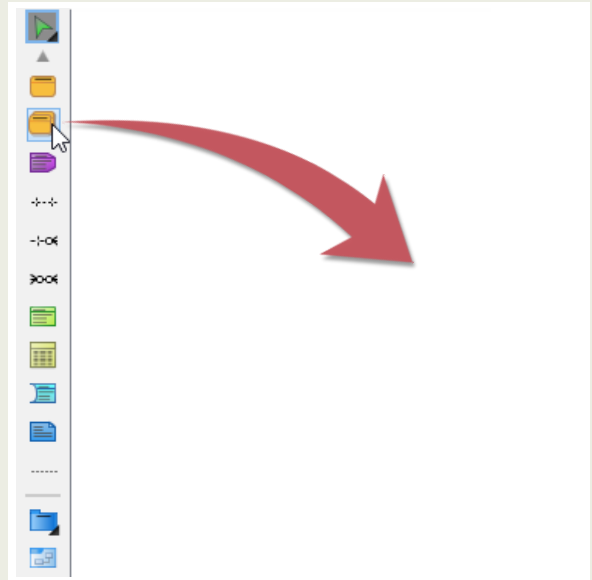
1. Right click on the diagram background and select **Show Table Record Editor or View Editor** from the popup menu.



Database View

Creating a View

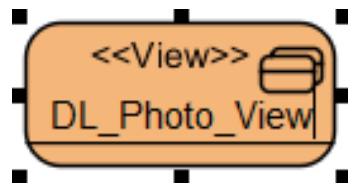
1. Right click on the diagram background and select **Show Table Record Editor or View Editor** from the popup menu.
2. Drag **View** from diagram toolbar to diagram.



Database View

Creating a View

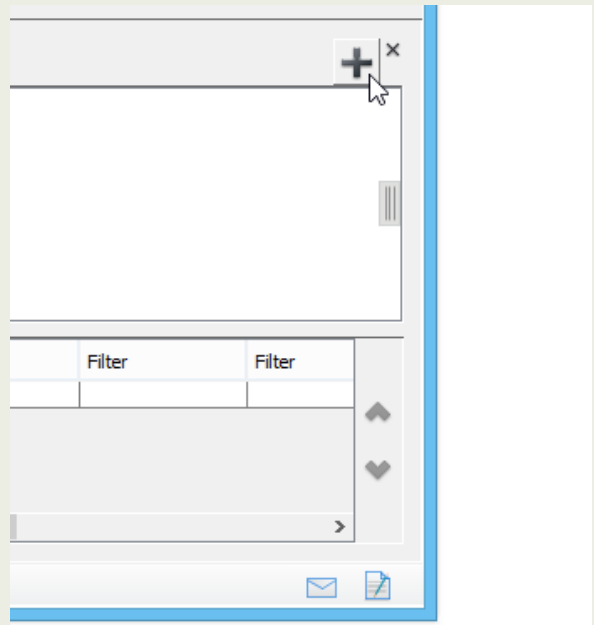
1. Right click on the diagram background and select **Show Table Record Editor or View Editor** from the popup menu.
2. Drag **View** from diagram toolbar to diagram.
3. Name it.



Database View

Creating a View

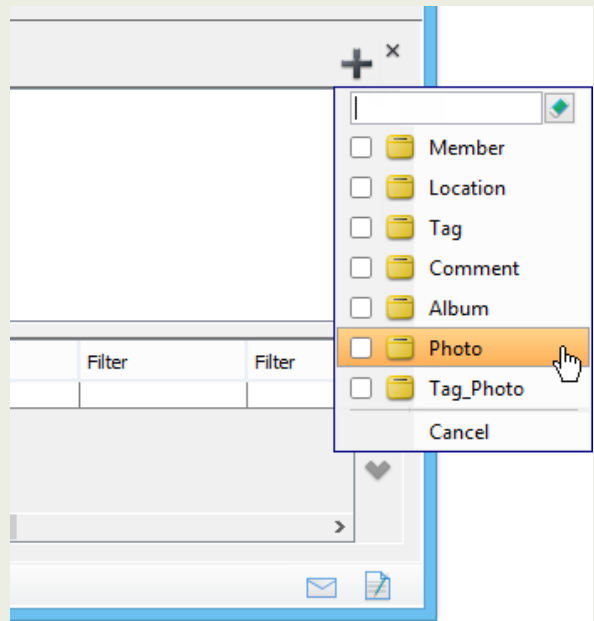
1. Right click on the diagram background and select **Show Table Record Editor or View Editor** from the popup menu.
2. Drag **View** from diagram toolbar to diagram.
3. Name it.
4. Click **Add Entity to View Editor** on the right hand side of the **View Editor**.



Database View

Creating a View

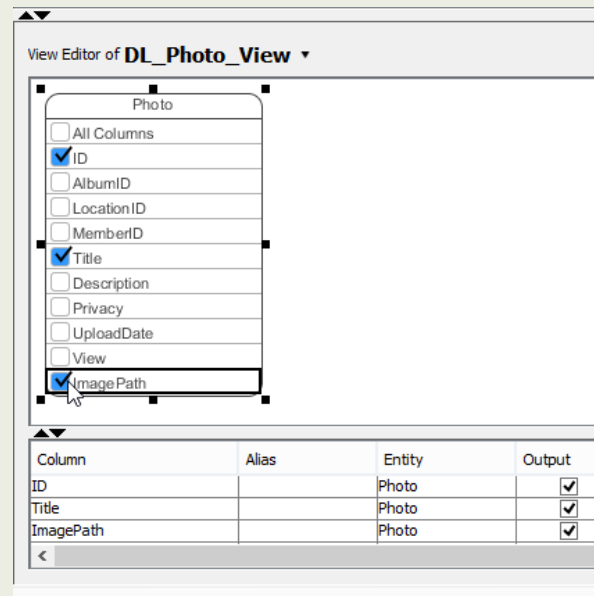
1. Right click on the diagram background and select **Show Table Record Editor or View Editor** from the popup menu.
2. Drag **View** from diagram toolbar to diagram.
3. Name it.
4. Click **Add Entity to View Editor** on the right hand side of the **View Editor**.
5. Select the entity to create view.



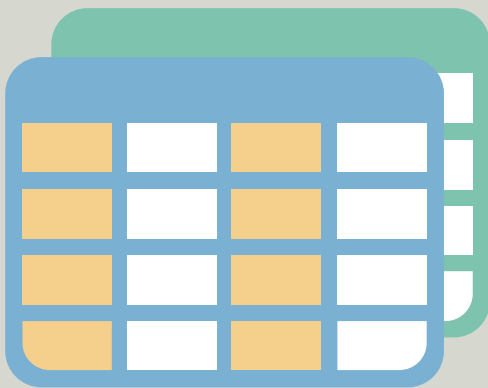
Database View

Creating a View

1. Right click on the diagram background and select **Show Table Record Editor or View Editor** from the popup menu.
2. Drag **View** from diagram toolbar to diagram.
3. Name it.
4. Click **Add Entity to View Editor** on the right hand side of the **View Editor**.
5. Select the entity to create view.
6. Select the columns to be included in the view.



Database View



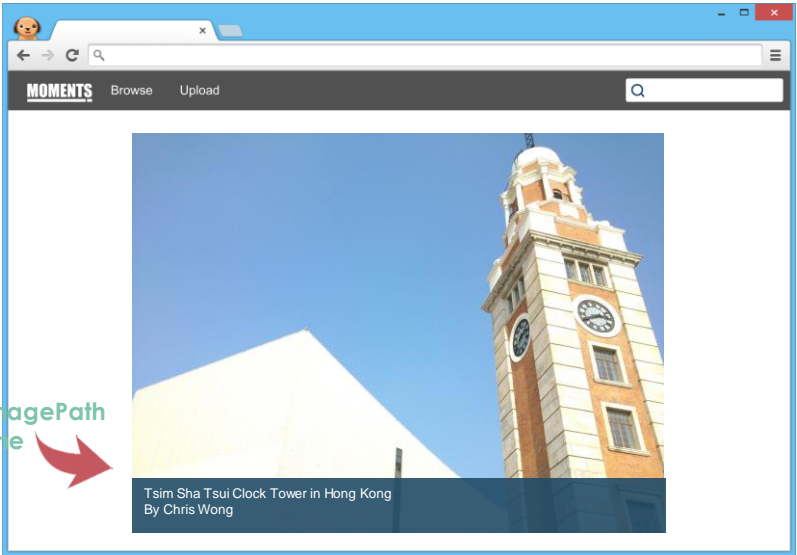
You can grab data from multiple tables by using **join**

Database View

Concept of Joining Tables

Source of data:

Photo table: Title, ImagePath
Member table: Name



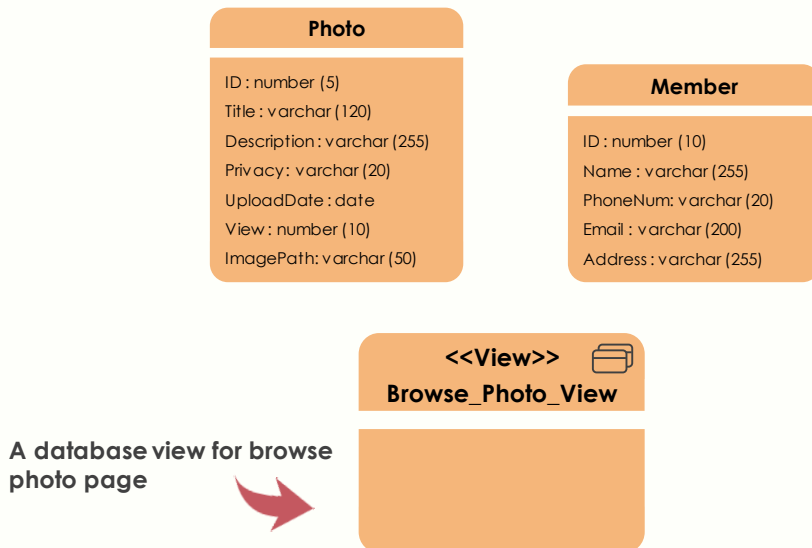
Concept of Joining Tables

Source of data

Photo
ID : number (5)
Title : varchar (120)
Description : varchar (255)
Privacy : varchar (20)
UploadDate : date
View : number (10)
ImagePath : varchar (50)

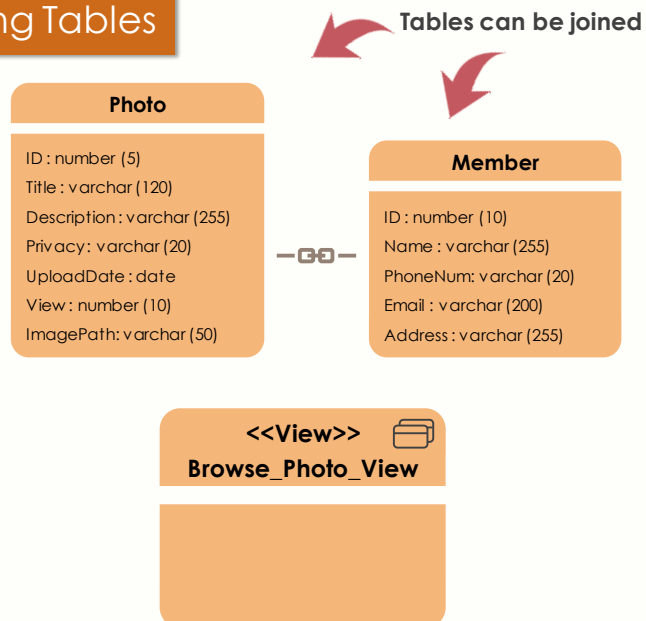
Member
ID : number (10)
Name : varchar (255)
PhoneNum : varchar (20)
Email : varchar (200)
Address : varchar (255)

Concept of Joining Tables



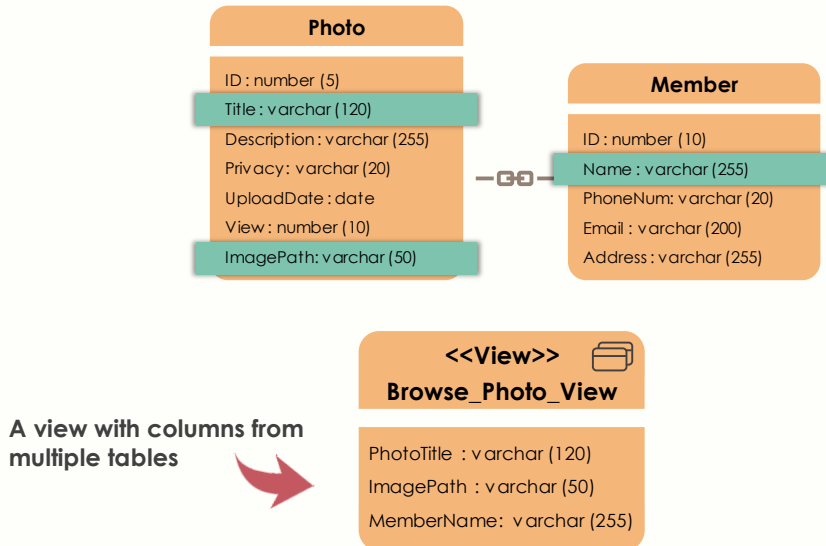
Database View

Concept of Joining Tables



Database View

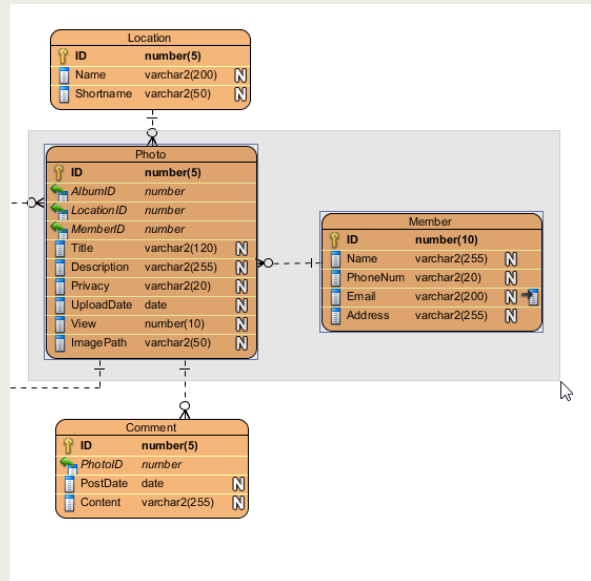
Concept of Joining Tables



Database View

Creating a View

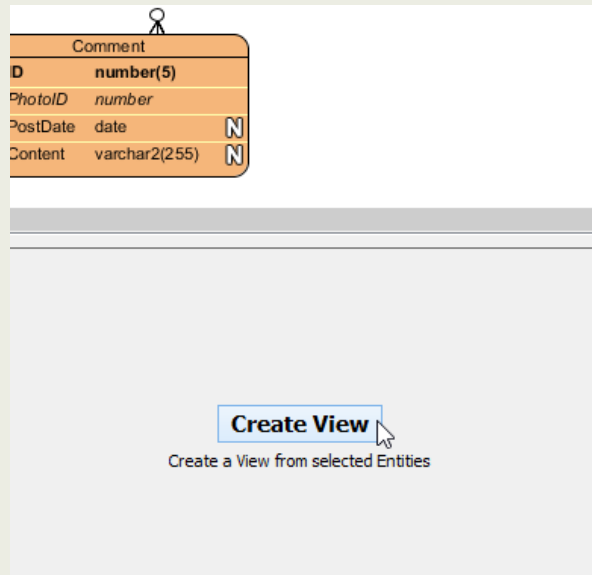
1. Select the entities to create view.



Database View

Creating a View

1. Select the entities to create view.
2. Click **Create View** in the **View Editor**.



Database View

Creating a View

1. Select the entities to create view.
2. Click **Create View** in the **View Editor**.
3. Name the view in diagram.



Database View

Creating a View

1. Select the entities to create view.
2. Click **Create View** in the **View Editor**.
3. Name the view in diagram.
4. In the **View Editor**, select the columns to be included in the view.

View Editor of **Browse_Photo_View** ▾

Column	Alias	Entity	Output
Title		Photo	<input checked="" type="checkbox"/>
ImagePath		Photo	<input checked="" type="checkbox"/>
Name		Member	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Database View

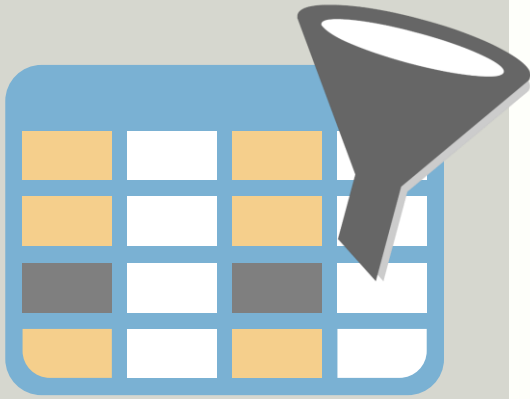
Creating a View

1. Select the entities to create view.
2. Click **Create View** in the **View Editor**.
3. Name the view in diagram.
4. In the **View Editor**, select the columns to be included in the view.
5. Give alias to columns for clarification. For example, change *Name* to *MemberName*.

View Editor of **Browse_Photo_View** ▾

Column	Alias	Entity	Output
Title	PhotoTitle	Photo	<input checked="" type="checkbox"/>
ImagePath	PhotoImagePath	Photo	<input checked="" type="checkbox"/>
Name	MemberName	Member	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Database View

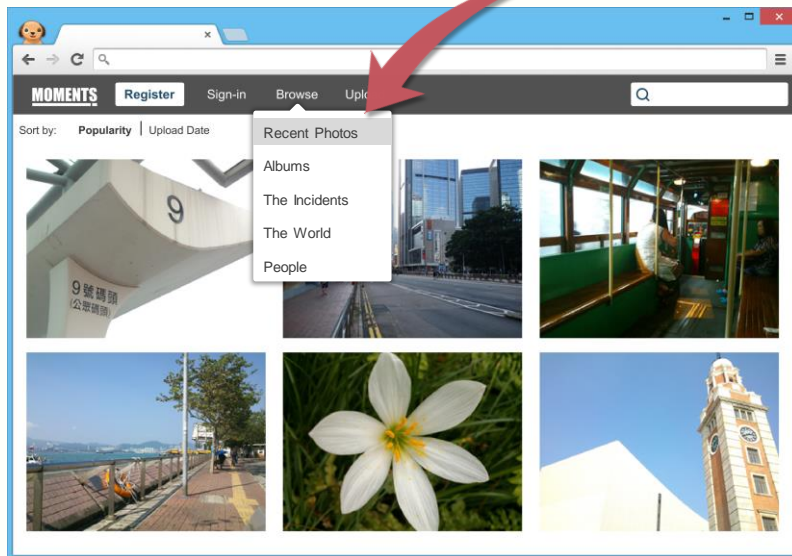


You can apply **Filter** to ensure that only relevant data is stored in the result set

Database View

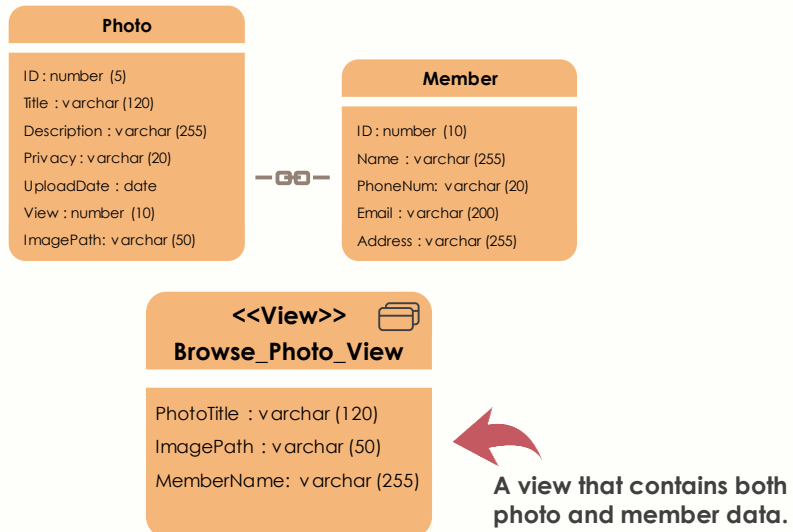
Concept of Filter

How about a view that lists only recent photos' data?



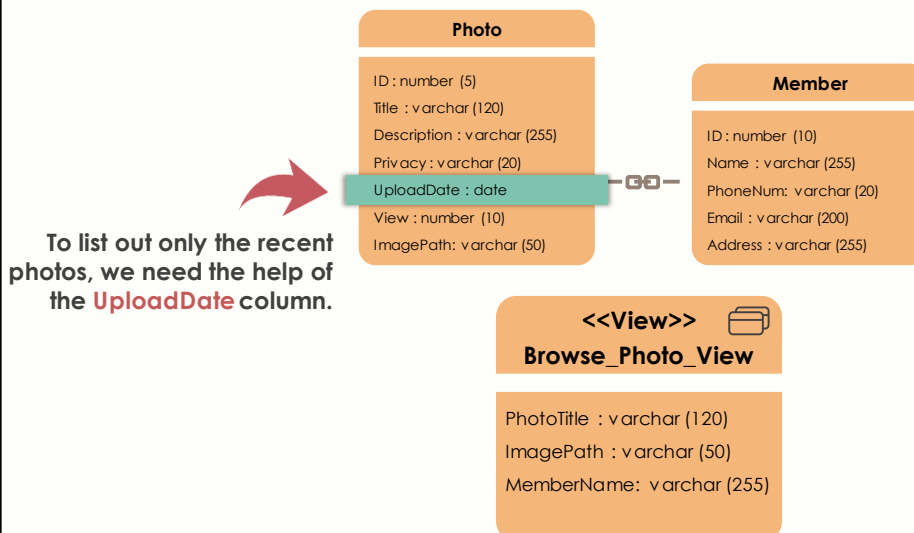
Database View

Concept of Filter



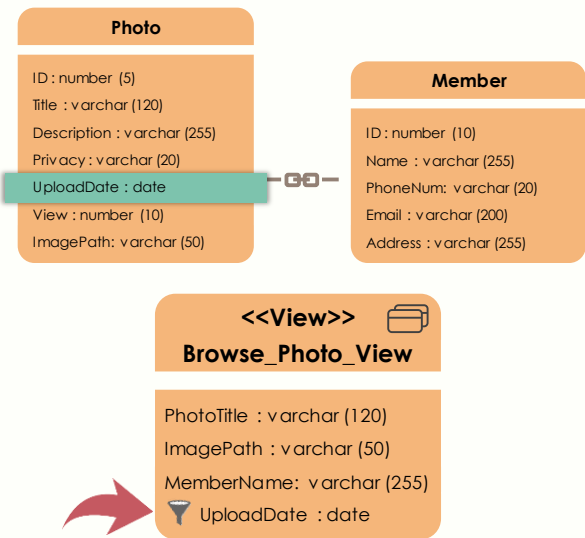
Database View

Concept of Filter



Database View

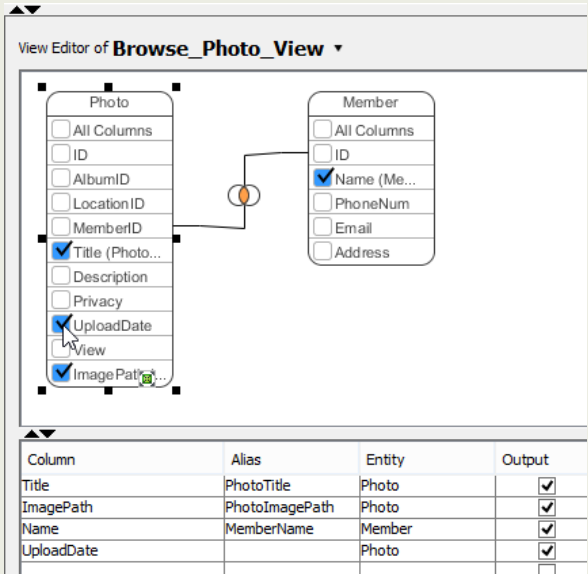
Concept of Filter



Apply a filter to the column

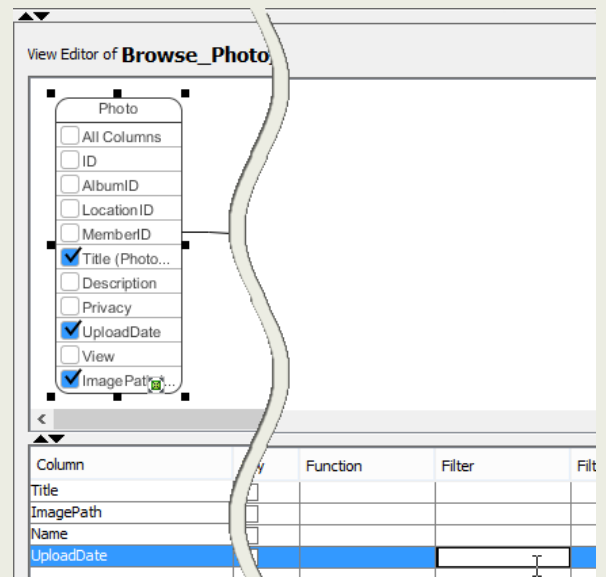
Applying Filter in a View

1. In the **View Editor**, select the column to be included in the view and for applying a filter.



Applying Filter in a View

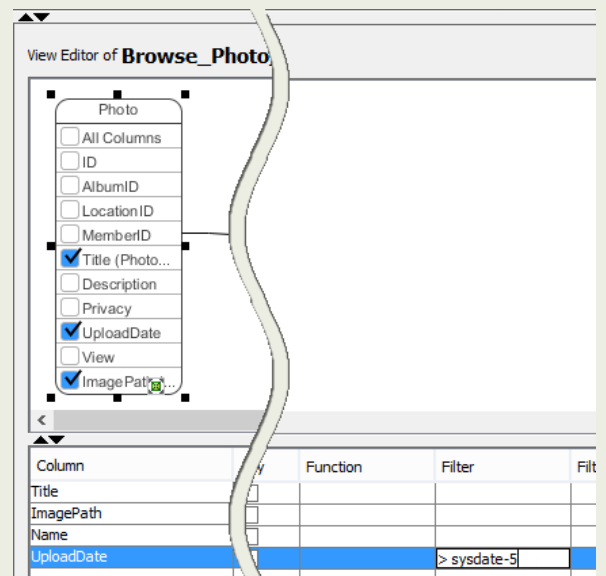
1. In the **View Editor**, select the column to be included in the view and for applying a filter.
2. In the table editor, double click on the first **Filter** cell of the selected column.



Database View

Applying Filter in a View

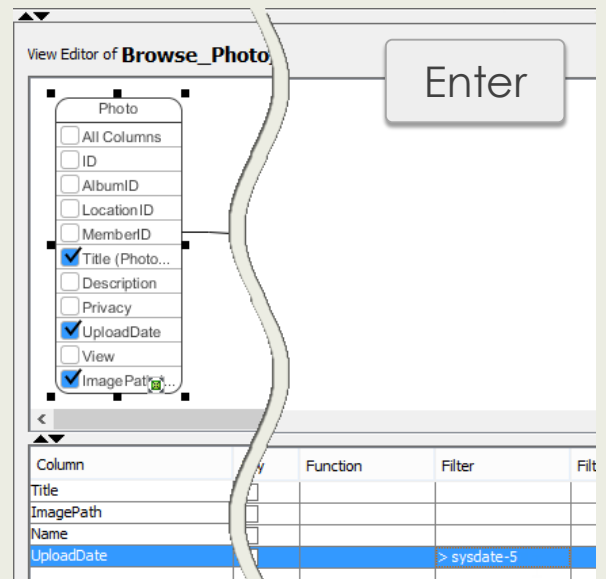
1. In the **View Editor**, select the column to be included in the view and for applying a filter.
2. In the table editor, double click on the first **Filter** cell of the selected column.
3. Enter the filter statement. Note that the syntax of statement and the functions available to call is **DBMS specific**. If you have questions about writing a query statement, consult your DBMS vendor.



Database View

Applying Filter in a View

1. In the **View Editor**, select the column to be included in the view and for applying a filter.
2. In the table editor, double click on the first **Filter** cell of the selected column.
3. Enter the filter statement. Note that the syntax of statement and the functions available to call is **DBMS specific**. If you have questions about writing a query statement, consult your DBMS vendor.
4. Press **Enter** to confirm editing.



Database View

Summary

- Concept of database view
- Using join in a database view
- Using filter in a database view

Database View