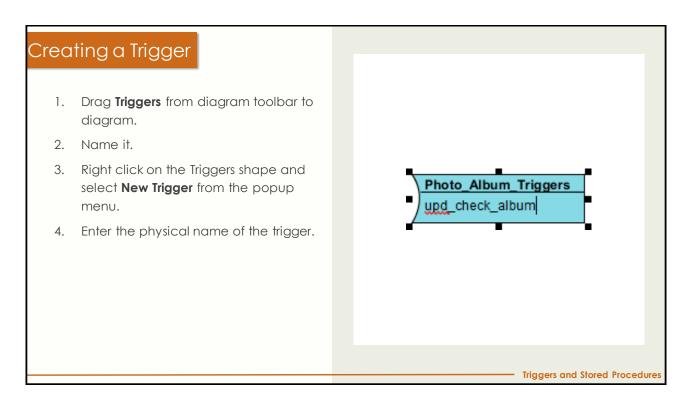
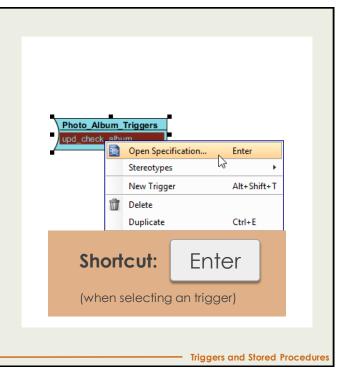


#### Creating a Trigger Photo\_Album\_Triggers Drag **Triggers** from diagram toolbar to 1. Alt+Shift+T New Trigger diagram. Open Specification... Enter 2. Name it. Stereotypes Sub Diagrams 3. Right click on the Triggers shape and Ed it select New Trigger from the popup menu. Сору Delete Dunlicate C+rl⊥E **Shortcut:** Alt Shift Presentation Options



# Creating a Trigger

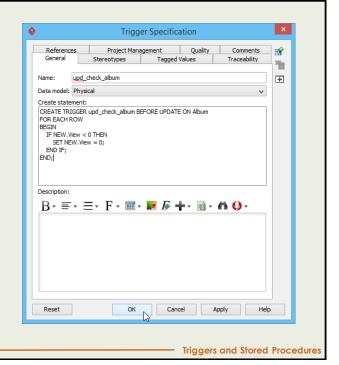
- Drag **Triggers** from diagram toolbar to diagram.
- 2. Name it.
- Right click on the Triggers shape and select New Trigger from the popup menu.
- 4. Enter the physical name of the trigger.
- Right click on the trigger and select
   Open Specification... from the popup menu.



Creating a Trigger Trigger Specification Project Management Quality Comments General Stereotypes Tagged Values Traceability 悔 Drag **Triggers** from diagram toolbar to upd check album + Data model: Physical diagram. Create statement: CREATE TRIGGER upd\_check\_album BEFORE UPDATE ON Album FOR EACH ROW 2. Name it. IF NEW.View < 0 THEN SET NEW. View = 0: Right click on the Triggers shape and select New Trigger from the popup menu. Enter the physical name of the trigger.  $B_{\uparrow} \equiv_{\uparrow} \equiv_{\uparrow} F_{\uparrow} \equiv_{\uparrow} F_{\uparrow} \oplus_{\downarrow} F_{\uparrow} \oplus_{\uparrow} f_{\downarrow} \oplus_{\uparrow$ Right click on the trigger and select 5. Open Specification... from the popup menu. Enter the **Create statement** of trigger. Reset Cancel Apply

# Creating a Trigger

- Drag **Triggers** from diagram toolbar to diagram.
- 2. Name it.
- Right click on the Triggers shape and select New Trigger from the popup menu.
- 4. Enter the physical name of the trigger.
- Right click on the trigger and select
   Open Specification... from the popup menu.
- 6. Enter the Create statement of trigger.
- 7. Click **OK** to confirm editing.



A stored procedure is a pre-written procedure code that allows you to execute over and over again for validation or quick retrieval of data.

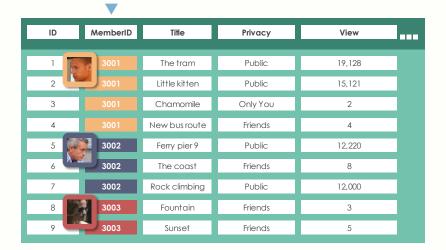
# Sample Usage – Querying Data

ID	MemberID	Title	Privacy	View	
					_
1	3001	The tram	Public	19,128	
2	3001	Little kitten	Public	15,121	
3	3001	Chamomile	Only You	2	
4	3001	New bus route	Friends	4	
5	3002	Ferry pier 9	Public	12,220	
6	3002	The coast	Friends	8	
7	3002	Rock climbing	Public	12,000	
8	3003	Fountain	Friends	3	
9	3003	Sunset	Friends	5	

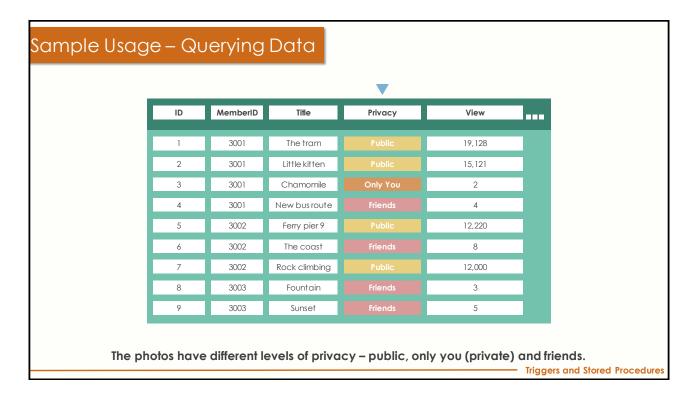
Let's take a look at this table. This is the Photo table, with all photos listed.

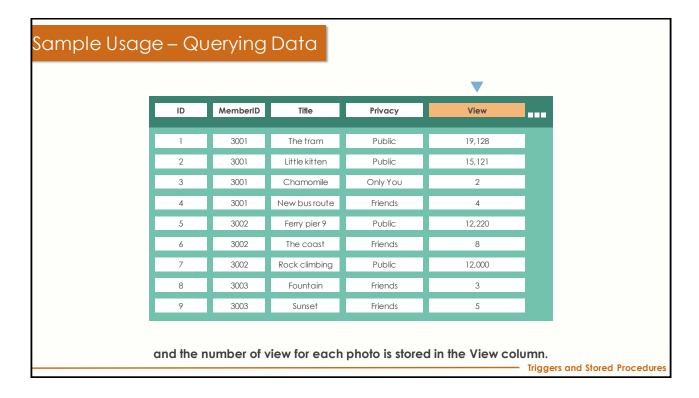
**Triggers and Stored Procedures** 

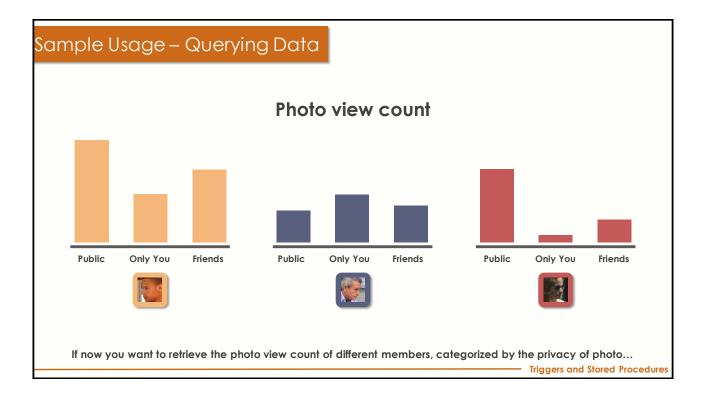
# Sample Usage – Querying Data

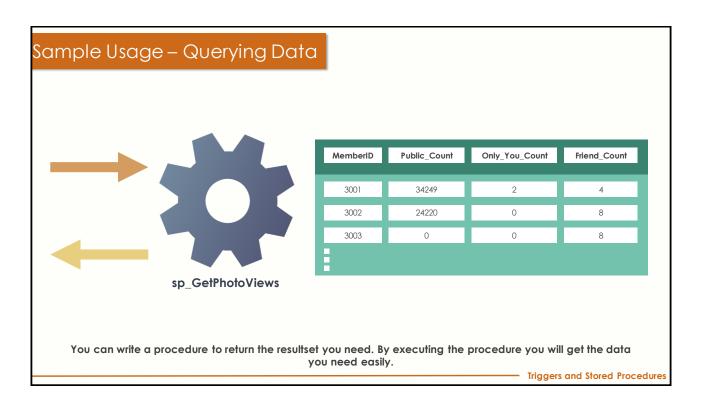


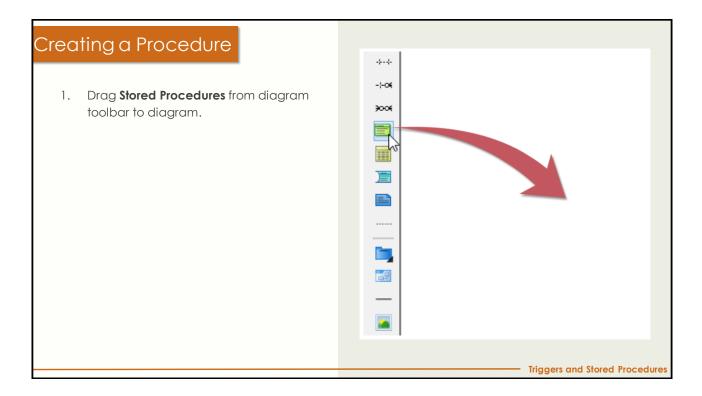
These photos are uploaded by different members, identified by their IDs.

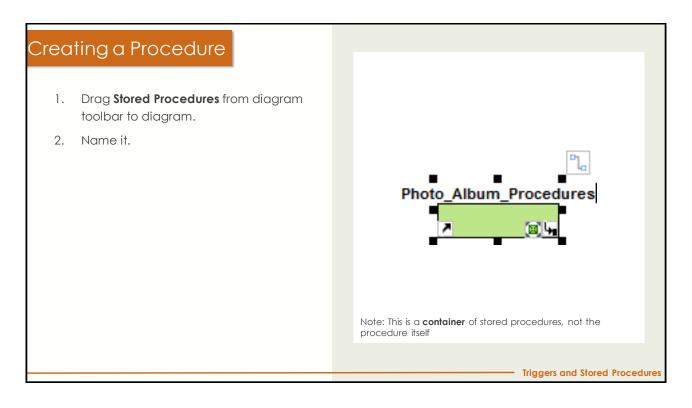




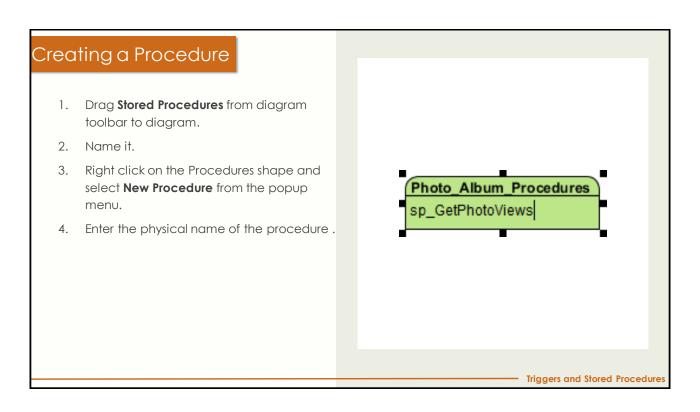






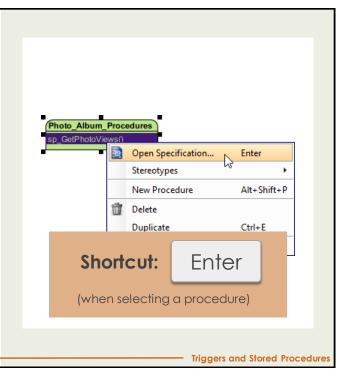


#### Creating a Procedure Photo\_Album\_Procedures Drag **Stored Procedures** from diagram 1. toolbar to diagram. New Procedure Alt+Shift+P Open Specification... Name it. 2. Stereotypes 3. Right click on the Procedures shape and Sub Diagrams select **New Procedure** from the popup Edit menu. Cut Сору Delete Shortcut: Alt Shift otyres and Formatting **Triggers and Stored Procedures**



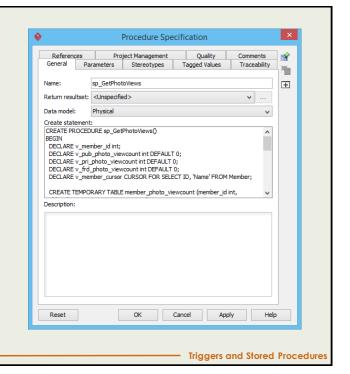
## Creating a Procedure

- 1. Drag **Stored Procedures** from diagram toolbar to diagram.
- 2. Name it.
- Right click on the Procedures shape and select New Procedure from the popup menu.
- 4. Enter the physical name of the procedure.
- Right click on the procedure and select Open Specification... from the popup menu.



# Creating a Procedure

- Drag Stored Procedures from diagram toolbar to diagram.
- 2. Name it.
- Right click on the Procedures shape and select New Procedure from the popup menu.
- 4. Enter the physical name of the procedure.
- Right click on the procedure and select Open Specification... from the popup menu.
- 6. Enter the **Create statement** of procedure.



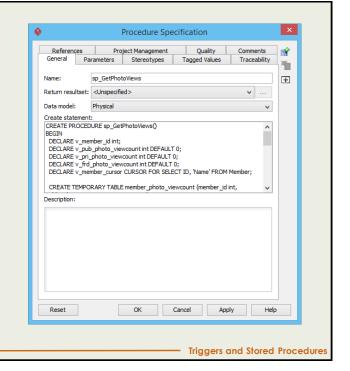
## Creating a Procedure

```
CREATE PROCEDURE sp_GetPhotoViews()
DECLARE v_member_id int;
DECLARE v_pub_photo_viewcount int DEFAULT 0;
DECLARE v_pri_photo_viewcount int DEFAULT 0;
DECLARE v frd photo viewcount int DEFAULT 0;
DECLARE v_member_cursor CURSOR FOR SELECT ID, 'Name' FROM Member;
CREATE TEMPORARY TABLE member_photo_viewcount (member_id int, public_photo_viewcount int, private_photo_viewcount int, friends_photo_viewcount int);
OPEN v_member_cursor;
FETCH v member cursor into v member id;
BEGIN
  SELECT SUM('View') INTO v_pub_photo_viewcount FROM Photo WHERE Privacy = 'Public' AND MemberID = member_id;
 SELECT SUM('View') INTO v_pri_photo_viewcount FROM Photo WHERE Privacy = 'Only You' AND MemberID = member_id;
 SELECT SUM('View') INTO v_frd_photo_viewcount FROM Photo WHERE Privacy = 'Friends' AND MemberID = member_id;
 INSERT\:INTO\:member\_photo\_viewcount\:VALUES\:(v\_member\_id,v\_pub\_photo\_viewcount,v\_pri\_photo\_viewcount,v\_frd\_photo\_viewcount);
 FETCH v_member_cursor into v_member_id;
FND:
CLOSE v_member_cursor;
SELECT * FROM member_photo_viewcount;
DROP TABLE member_photo_viewcount;
```

Triggers and Stored Procedures

### Creating a Procedure

- 1. Drag **Stored Procedures** from diagram toolbar to diagram.
- 2. Name it.
- Right click on the Procedures shape and select New Procedure from the popup menu.
- 4. Enter the physical name of the procedure.
- Right click on the procedure and select Open Specification... from the popup menu.
- 6. Enter the **Create statement** of procedure.
- 7. Click **OK** to confirm editing.



# Summary

- What is a trigger?
- How to create a trigger?
- What is a stored procedure?
- How to create a procedure?