

## **Memorandum**

To: Mr. Roger and Al (The Movable Art Project)

From : Nishchal Banskota

Date: October 11, 2012

### **Re: The Movable Art Database**

This is to inform you that the Movable Art Database Project has been completed and is in operation as of today, October 11, 2012. A database is a storage unit which is designed to offer an organized mechanism for storing, managing and retrieving information in various formats. The main purpose of using databases instead of spreadsheets and other programs are that it allows one to retrieve all the records that match certain criteria, update records in bulk, cross-reference records in different tables and perform complex aggregate calculations.

The primary goals of the project included creating a database which could generate the list of paintings along with all of its specific details, the museums to which the paintings were shipped and the shipping details. Furthermore, the database was to be designed so as to generate paintings by two specific artists namely Picasso and Warhol, list the paintings that were created before 1900 belonging to New York, generate the specific paintings matching the shipping ID criteria and group the total number of paintings pertaining to specific shipping ID. Lastly, a report was to be created that grouped paintings according to the museums they were assigned to. All of the goals have been achieved upon the completion of the project.

Several tables, queries and reports have been created in the database which have been explained systematically here within the memorandum.

## A) Tables

The four tables that are created in the database include specific details about the paintings, museums, shipping and shipping line items and they are explained as follows:

- 1) **Table 1 (Art):** The art table is designed to keep track of all the paintings with its unique ID number, the artist, year it was made and the owner ID. Since the owners did not want to be identified, a unique number has been assigned to every single of them.
- 2) **Table 2 (Museums):** The second table, Museums, lists specific details about the museums which include the museum ID, its full address and contact information.
- 3) **Table 3 (Shipping):** The shipping table keeps track of the shipping ID, the museum to which a specific painting is transferred to and the date in which the painting is shipped. Moreover, this table is specifically designed to inform the users whether the paintings are insured or not.
- 4) **Table 4 (Shipping Line Item):** The last table, shipping line item, records every single painting and the its shipping through shipping and art ID.

*Appendix 1 shows the exact format of the tables that haven created in the database.*

## B) Queries

Queries are a powerful tool that help to retrieve specific information in any format wanted or that matches any criteria specified. In simpler terms, queries basically sort the information in specific ways. The Movable Art database includes a total of four queries that are explained below.

- 1) **Query 1 (Paintings by Picasso and Warhol):** This select query is designed to generate specific paintings made by two famous artists namely Picasso and Warhol. It displays the painting name, the artist and the museum that has borrowed the specific paintings.
- 2) **Query 2 (Pre-1900 and NY paintings):** The second query generates specific paintings that were made before the year 1900 and is currently on loan to New York museums. The Query displays the painting name and ID, the artist and he museum details.
- 3) **Query 3 (Shipping List by ID):** This query is designed in a specific way which prompts the user to enter the shipping ID. Since, many paintings are transferred in one shipment, it displays all the paintings that are shipped in the user defined shipment ID.
- 4) **Query 4 (Number of Paintings Shipped):** The fourth query counts the total number of paintings that are shipped in one shipment and displays the result through shipping ID and number of painting columns.

*Appendix 2 shows the results that are generated when the queries are run.*

### **C) Reports**

Reports are basically an easier way to view the information which shows all the fields that have been created in the tables or the queries. Reports are used to portray information in an organized and attractive way.

Only one report has been created in the database but reports can be generated with just a click from any table or query. The Art Exhibits report is created through the query of the same name which displays the name of the museums and all of the paintings that are load to the specific museums.

*Appendix 3 shows the exact format of what a report looks like.*

The Movable Art Database is a simple but flexible database which is perfect for a small business. Complicated database is not required with the current amount of information provided. However, with the expansion of the business, the database can be extended to offer wide-ranging opportunities to store and organize the growing amount of data.

The expansion prospects includes the development of specific forms which would enable a representative of the museums to enter the specific paintings required themselves rather than the user manually entering data. Furthermore, automatic shipments can be arranged with establishing links to the shipment companies in order to ease the lengthy manual procedure. Similarly, for handling extensive amount of information, more number of specific queries can be designed to meet the exact demands of the customers.

There are wide possibilities in making extensive use of database but for the business, a simple and easy to use database like the one created is perfect. For first-time users, databases might be overwhelming and confusing. Hence, please do not hesitate to contact me with any database related questions or for further information.

## Appendix 1:

Art				
ID	Painting	Artist	Year	Owner ID
2	No. 5, 1948	Jackson Pollock	1948	2
3	Woman III	Willem de Kooning	1953	3
4	Portrait of Adele Bloch-Bauer I	Gustav Klimt	1907	6
5	Portrait of Dr. Gachet	Vincent van Gogh	1890	5
6	Bal du moulin de la Galette[11]	Pierre-Auguste Renoir	1876	1
7	Garçon à la pipe	Pablo Picasso	1905	4
8	Nude, Green Leaves and Bust	Pablo Picasso	1932	2
9	Portrait of Joseph Roulin	Vincent van Gogh	1889	5
10	Dora Maar au Chat	Pablo Picasso	1941	5
11	Irises	Vincent van Gogh	1889	5
12	Eight Elvises	Andy Warhol	1963	3
13	Portrait de l'artiste sans barbe	Vincent van Gogh	1889	6
14	Portrait of Adele Bloch-Bauer II	Gustav Klimt	1912	4
15	Massacre of the Innocents	Peter Paul Rubens	1611	2
16	Triptych, 1976	Francis Bacon	1976	1
17	False Start[26]	Jasper Johns	1959	2
18	A Wheatfield with Cypresses	Vincent van Gogh	1889	5
19	Les Noces de Pierrette	Pablo Picasso	1905	3
20	Yo, Picasso	Pablo Picasso	1901	2
21	Turquoise Marilyn	Andy Warhol	1964	1
22	Le Bassin aux Nymphéas	Claude Monet	1919	5
23	Rideau, Cruchon et Compotier[31]	Paul Cézanne	1894	3
24	Vase with Fifteen Sunflowers	Vincent van Gogh	1888	5
25	White Center (Yellow, Pink and Lavender on Rose)	Mark Rothko	1950	4
26	Green Car Crash (Green Burning Car I)	Andy Warhol	1963	6
27	Diana and Actaeon	Titian		5

Museums							
Museum ID	Museum Name	Museum Address	Museum City	Museum State	Museum Zip Code	Museum Phone	Museum Contact
1	Metropolitan Museum of Art	1000 Fifth Avenue	New York	NY	10028	212-535-7710	Ann Klein
2	Walters Art Museum	600 N. Charles Street	Baltimore	MD	21201	410-547-9000	Debbie Jones
3	Crystal Bridges	600 Museum Way	Bentonville	AR	72712	479-418-5700	Wilbur Brown
4	National Gallery	4th and Constitution Avenue NW	Washington DC		20565	301-737-4215	Sabina Wright
5	Art Institute of Chicago	111 South Michigan Avenue	Chicago	IL	60603	312-443-3600	Laurence Rivers
6	Seattle Art Museum	1300 First Avenue	Seattle	WA	98101	206.344.5275	Ewan Davis

Shipping			
Shipping ID	Date Shipped	Insured?	Museum ID
1	11/1/2011	<input type="checkbox"/>	6
2	12/15/2011	<input checked="" type="checkbox"/>	5
3	1/23/2012	<input checked="" type="checkbox"/>	4
4	2/13/2012	<input type="checkbox"/>	3
5	3/15/2012	<input checked="" type="checkbox"/>	2
6	3/16/2012	<input checked="" type="checkbox"/>	2
7	4/1/2012	<input type="checkbox"/>	1
8	5/12/2012	<input type="checkbox"/>	4
9	5/30/2012	<input checked="" type="checkbox"/>	3
10	5/31/2012	<input checked="" type="checkbox"/>	2

Shipping_Line_Item	
Shipping ID	Art ID
1	2
1	3
1	4
1	5
2	40
2	41
2	42
3	30
3	31
3	32
3	33
3	34
3	35
4	20
4	21
4	22
4	23
4	24
4	25

## Appendix 2:

Painting	Artist	Museum Name
Garçon à la pipe	Pablo Picasso	National Gallery
Nude, Green Leaves and Bust	Pablo Picasso	Walters Art Museum
Dora Maar au Chat	Pablo Picasso	Art Institute of Chicago
Eight Elvises	Andy Warhol	Crystal Bridges
Les Noces de Pierrette	Pablo Picasso	Crystal Bridges
Yo, Picasso	Pablo Picasso	Walters Art Museum
Turquoise Marilyn	Andy Warhol	Metropolitan Museum of Art
Green Car Crash (Green Burning Car I)	Andy Warhol	Seattle Art Museum
Au Lapin Agile	Pablo Picasso	Metropolitan Museum of Art
Acrobate et jeune Arlequin[39]	Pablo Picasso	Walters Art Museum
Femme aux Bras Croisés	Pablo Picasso	Seattle Art Museum
Le Rêve[44]	Pablo Picasso	Walters Art Museum
Femme assise dans un jardin	Pablo Picasso	Seattle Art Museum
Men in Her Life	Andy Warhol	National Gallery

ID	Painting	Artist	Year	Museum State	Museum Name
6	Bal du moulin de la Galette[11]	Pierre-Auguste Renoir	1876	NY	Metropolitan Museum of Art
*					

Enter Parameter Value

Enter Shipping ID

OK Cancel

Enter Parameter Value

Enter Shipping ID

OK Cancel

Shipping List by ID		
Painting	Date Shipped	Insured?
Yo, Picasso	2/13/2012	<input type="checkbox"/>
Turquoise Marilyn	2/13/2012	<input type="checkbox"/>
Le Bassin aux Nymphéas	2/13/2012	<input type="checkbox"/>
Rideau, Cruchon et Compotier[3	2/13/2012	<input type="checkbox"/>
Vase with Fifteen Sunflowers	2/13/2012	<input type="checkbox"/>
White Center (Yellow, Pink and	2/13/2012	<input type="checkbox"/>

Number of Paintings Shipped	
Shipping ID	Number of Paintings
1	4
2	3
3	6
4	6
5	2
6	4
7	2
8	1
9	1
10	2

### Appendix 3:

Art Exhibit	
Art Exhibit	
Tuesday, October 09, 2012	
10:07:22 PM	
Museum Name	Painting
Art Institute of Chicago	Portrait of a Halberdier
	Suprematist Composition
	Zhichuan Resettlement[54]
Crystal Bridges	Rideau, Cruchon et Comptoir[31]
	Yo, Picasso
	Le Bassin aux Nymphéas
	Vase with Fifteen Sunflowers
	White Center (Yellow, Pink and Lavender on Rose)
	Garçon à la pipe
	Turquoise Marilyn
Metropolitan Museum of Art	Bal du moulin de la Galette[11]
	Au Lapin Agile