**CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO**

**SCHOOL OF COMPUTER SCIENCE & ENGINEERING**

**CSE 572 S18: DATABASE DESIGN PROJECT**

**PROJECT OPTION**

**Coyote Inland Empire Art Museum**

**TEAM NAME**

**TEAM MEMBERS**

***Khan, Hamza***

***Butarbular, Edmund***

***Cervantes, Maira***

|  |  |
| --- | --- |
| **Collection:** (collection\_id, artwork\_id)  **Primary Key:** collection\_id  **Foreign Key:** artwork\_id **references** Artwork(artwork\_id) | **Slides:** (slides\_id, artwork\_id)  **Primary Key:** slides\_id  **Foreign Key:** artwork\_id **references** Artwork(artwork\_id) |
| **Location:** (location\_id, artwork\_id)  **Primary Key:** location\_id  **Foreign Key:** artwork\_id **references** Artwork(artwork\_id) | **Artwork:** (artwork\_id, collection\_id, location\_id, maintenance\_id, loan\_id, slide\_id, acquisition\_id, total\_count, name, art\_type, date\_of\_next\_exhibit, ship\_date)  **Primary Key:** artwork\_id  **Foreign Key:** collection\_id **references** Collection(collection\_id)  **Foreign Key:** location\_id **references** Location(location\_id)  **Foreign Key:** maintenance\_id **references** Maintenance(maintenance\_id)  **Foreign Key:** loan\_id **references** Loan(loan\_id)  **Foreign Key:** slide\_id **references** Slides(slides\_id)  **Foreign Key:** acquisition\_id **references** Acquisition (acquisition\_id) |
| **Maintenance:** (maintenance\_id, name, art\_type, loan\_id, maintenance\_history)  **Primary Key:** maintenance\_id  **Foreign Key:** name **references** Artwork(name)  **Foreign Key:** art\_type **references** Artwork(art\_type)  **Foreign Key**: loan\_id **references** Artwork(loan\_id) | **Acquisition:** (acquisition\_id, member\_id, museum\_id, non\_member\_id, date\_acquired, amount\_acquired\_for, acquisition type)  **Primary Key:** acquisition\_id  **Foreign Key:** member\_id **references** Member(member\_id)  **Foreign Key:** museum\_id **references** Museum(museum\_id)  **Foreign Key:** non\_member\_id **references** Non-member(non\_member\_id) |
| **Seller\_Donor:** (acquisition\_id)  **Primary Key:** acquisition\_id  **Foreign Key:** acquisition\_id **references** Acquisition(acquisition\_id) | **Member:** (member\_id, name, address, membership\_type)  **Primary Key:** member\_id  **Foreign Key:** none |
| **Museum:** (museum\_id, name, address)  **Primary Key:** museum\_id  **Foreign Key:** none | **Non-Member:** (non\_member\_id)  **Primary Key:** non\_member\_id  **Foreign key:** none |
| **Loan:** (loan\_id, museum\_id)  **Primary Key:** loan\_id  **Foreign Key:** museum\_id **references** Museum(museum\_id) | **Scheduled:** (maintenance\_id, maintenance\_history, name, art\_type, weight\_and\_unit\_measurement, dimensions\_and unit\_measurement)  **Primary Key:** maintenance\_id  **Foreign Key:** maintenance\_id **references** Maintenance(maintenance\_id)  **Foreign Key:** maintenance\_history **references** Maintenance(maintenance\_history)  **Foreign Key:** name **references** Maintenance(name)  **Foreign Key:** art\_type **references** Maintenance(art\_type)  **Foreign Key:** weight\_and\_unit\_measurement **references** Maintenance(weight\_and\_uint\_measurement)  **Foreign Key:** dimensions\_and\_unit\_measurement **references**  Maintenance(dimensions\_and\_unit\_measurement) |
| **Unscheduled:** (maintenance\_id, maintenance\_history, name, art\_type, weight\_and\_unit\_measurement, dimensions\_and unit\_measurement)  **Primary Key:** maintenance\_id  **Foreign Key:** maintenance\_id **references** Maintenance(maintenance\_id)  **Foreign Key:** maintenance\_history **references** Maintenance(maintenance\_history)  **Foreign Key:** name **references** Maintenance(name)  **Foreign Key:** art\_type **references** Maintenance(art\_type)  **Foreign Key:** weight\_and\_unit\_measurement **references** Maintenance(weight\_and\_uint\_measurement)  **Foreign Key:** dimensions\_and\_unit\_measurement **references**  Maintenance(dimensions\_and\_unit\_measurement)  **Foreign Key:** date\_of\_next\_exhibit **references** Artwork(date\_of\_next\_exhibit) |  |

**Common Comments:**

* **Hamza**
  + The difficulties I faced while trying to get my part of the project done was understanding how Edmund designed the updated diagram. The way I figured out how he came up with the new design was by reading over the project description and seeing what information corroborated with what Edmund wrote in the diagram. Then I had to make a couple minor changed in order to account for some information that was missing such as maintenance scheduled and unscheduled maintenance schedules.
  + The part I liked about his diagram was understanding how a conceptual model works and how to create one. The part I disliked was trying to figure out how the updated diagram works.
  + The most challenging aspect of the project was understanding how Edmunds and Maira’s updated diagram works.
  + The only suggestion that I would have would to be to have a bit more practice in making a conceptual model.
* **Edmund**
* **Maira**

**Personal Comments:**

* **Hamza**
  + The parts of this project that I contributed to was creating the Relations and Attributes table. I also helped update the table that both Edmund and Maira created.
  + The parts I contributed to my partners stuff was helping to update the diagram for some things that Edmund and Maira left out for maintenance table.
* **Edmund**
* **Maira**