Case 2
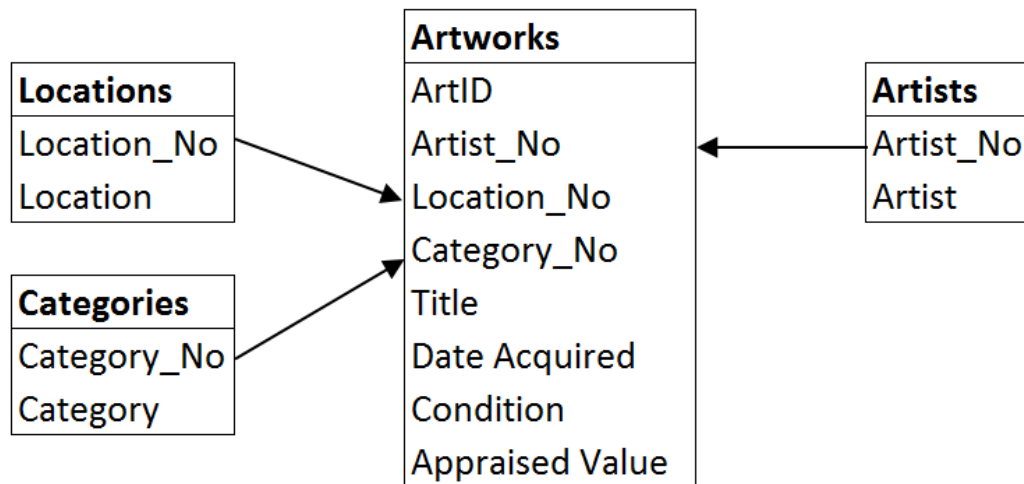**Dataset Analysis with ETL**

1. Business Scenario

You are to build a simple ETL process for the Art Database. The output of this process is a MS Excel Spreadsheet that will be used for additional descriptive analysis. The Art Database is composed of the following tables and relationships.

2. Instructions:

- Extract the following data from the SQLite database using R commands. The final desired data in excel formal should have the following columns: Save the data frame as "art.csv"

	A	B	C	D	E	F	G	H	I
1	ArtID	Artist	Title	Date Acquired	Category	Condition	Location	Appraised Value	Age
2	1	Mogan	Red Rock I	3/19/2005	Painting	Excellent	East Pavili	$18,000	10.43
3	2	Novarre	Offerings	5/16/2005	Painting	Excellent	East Pavili	$10,000	10.27
4	3	Chico	Spring Flo	3/20/2004	Sculpture	Excellent	East Pavili	$ 2,400	11.43

- **Dataset Description:** One row for each artwork with corresponding artist name, category description, condition, its location appraised value and age as of today in years.

- Using R Commands, answer the following business questions:
    1. Calculate the Mean, Standard Deviation, Median, Mode, Variance, Range, Minimum, Maximum, Sum and Count of the Appraised Value of all Artworks in USD.
    2. Calculate the average and as well as the total value and number of Artworks for each location in the Museum. Which location is the most/least valuable?
    3. Calculate the average and as well as the total value and number of Artworks for each Artist in the Museum. Which Artist has the highest average value per painting?
    4. Given the date acquired, what is the average age of the paintings in years per condition per location today?
    5. Is there a relationship between the average age and its condition?