1. empty_db
   a. Literally creates an empty dictionary
2. add_item
   a. Inputs: database, artwork, artist, year, description, owner
   b. Output: booleans indicating whether edit was successful
   c. Checks to see if database contains a specified artist.
      i. artist is mapped to info in database
      ii. info is another dictionary, that maps artwork to a set of 3 values
      iii. Checks to see if info contains a specified artwork.
          1. If it does
             a. returns that no edits were made
          2. If it does not, then artwork in the info is mapped to a set of 3 values containing year, description, owner
   d. If the original database does not have the specified artist yet, then info is set as an empty dictionary.
   e. artist in the database is mapped to a dictionary that maps artist to a set of 3 values, including year, description, owner
   f. Returns that changes were made.
3. change_owner
   a. Inputs: database, artist, artwork, new owner
   b. Output: booleans indicating whether edit was successful
   c. Checks to see if database contains a specified artist.
      i. artist is mapped to info in database
      ii. info is another dictionary, that maps artwork to a set of 3 values
   d. Checks to see if info contains a specified artwork.
      i. If it does, the last item in the set of values that artwork is mapped to is removed
      ii. It is replaced by the new owner
      iii. Then the new set is readded to the database.
      iv. Returns that changes were made
   e. Otherwise, returns that no changes were made.
4. select_artist
   a. Inputs: database, artist
   b. Output: selected data
   c. If the specified database has the artist, then the artist and the information it is mapped to is returned.
   d. Otherwise, an empty dictionary is returned
5. select_artwork
   a. Inputs: database, artwork
   b. Outputs: selected data
   c. data dictionary initialized
   d. For every artist in the database, info is set to the mapping of the artist.
   e. If info has the specified artwork and artist has not been added to the empty data

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then the artist in data is mapped to the empty data
artist is then mapped to artwork
artwork is mapped to its corresponding information

f. The data database is returned.

6. select_year
   a. Inputs: database, year
   b. Outputs: selected data
   c. data dictionary initialized
   d. For every artist in the database, info is set to the mapping of the artist.
   e. For every artwork in info, tupledata is set to the mapping of the artwork.
   f. if the year specified is equal to the first item in tupledata and the artist is not yet in the empty initialized dictionary,
   g. Then artist in data is mapped to the empty initialized data
   h. Artist is mapped to artwork and artwork is mapped to the set of tuple data
   i. the data set is returned

7. select_keyword
   a. Inputs: database, keyword
   b. Outputs: selected data
   c. data dictionary initialized
   d. For every artist in the database, info is set to the mapping of the artist.
   e. For every artwork in info, tupledata is set to the mapping of the artwork.
   f. if the description specified is in second position in tupledata and the artist is not yet in the empty initialized dictionary,
   g. Then artist in data is mapped to the empty initialized data
   h. Artist is mapped to artwork and artwork is mapped to the set of tuple data
   i. the data set is returned

8. select_owner
   a. Inputs: database, owner
   b. Outputs: selected data
   c. data dictionary initialized
   d. For every artist in the database, info is set to the mapping of the artist.
   e. For every artwork in info, tupledata is set to the mapping of the artwork.
   f. if the year specified is in the third position in tupledata and the artist is not yet in the empty initialized dictionary,
   g. Then artist in data is mapped to the empty initialized data
   h. Artist is mapped to artwork and artwork is mapped to the set of tuple data
   i. the data set is returned

9. format_results
   a. Inputs: database
   b. Output: organized string with information
   c. empty string initialized
   d. for artists in the database, for artwork in the mapping of artists
      i. the year, owner, and keyword are specified as the mapping of artwork

      ii.   the empty string is continually appended with the artist, artwork, year, description, and owner, each separated by a comma and a space.

    iii.   this information is returned.