Relational Schema

1. Artist(artistID:PK, name, biography, style, totalExhibitions)
2. Artwork(artworkID:PK, artistID:FK, title, medium, dimensions, creationDate, price, availabilityStatus)
3. Exhibition(exhibitionID:PK, exhibitionName, startDate, endDate, venue, galleyID:FK)
4. ExhibitionArtworks(exhibitionArtworkID:PK, exhibitionID:FK, artworkID:FK)
5. Gallery(galleryID:PK, galleryName, location, contactDetails)
6. Collector(collectorID:PK, collectorName, preferences)
7. CollectArtworks(collectArtworkID:PK, collectorID:FK, artworkID:FK)

Checking for BCNF

For a relation to be in BCNF: for any non-trivial functional dependency `X->Y`, `X` should be a superkey.

Functional Dependencies

1. `artistID -> name, biography, style, totalExhibitions`
2. `artworkID -> title, medium, dimensions, creationDate, price, availabilityStatus, artistID`
3. `exhibitionID -> exhibitionName, startDate, endDate, venue, galleryID`
4. `galleryID -> galleryName, location, contactDetails`
5. `collectorID -> collectorName, preference`
6. `exhibitionArtworkID -> exhibitionID, artworkID`
7. `collectArtworkID -> collectorID, artworkID`

From the above functional dependencies:

in Artist: `artistID` is the PK, so it's a superkey
in Artwork: `artworkID` is the PK, so it's a superkey
in Exhibition: `exhibitionID` is the PK, so it's a superkey
in Gallery: `galleryID` is the PK, so it's a superkey
in Collector: `collectorID` is the PK, so it's a superkey
in ExhibitionArtworks: `exhibitionArtworkID` is the PK, so it's a superkey
in CollectorArtworks: `collectArtworkID` is the PK, so it's a superkey

Given the above, we can conclude that all relations are in BCNF.