

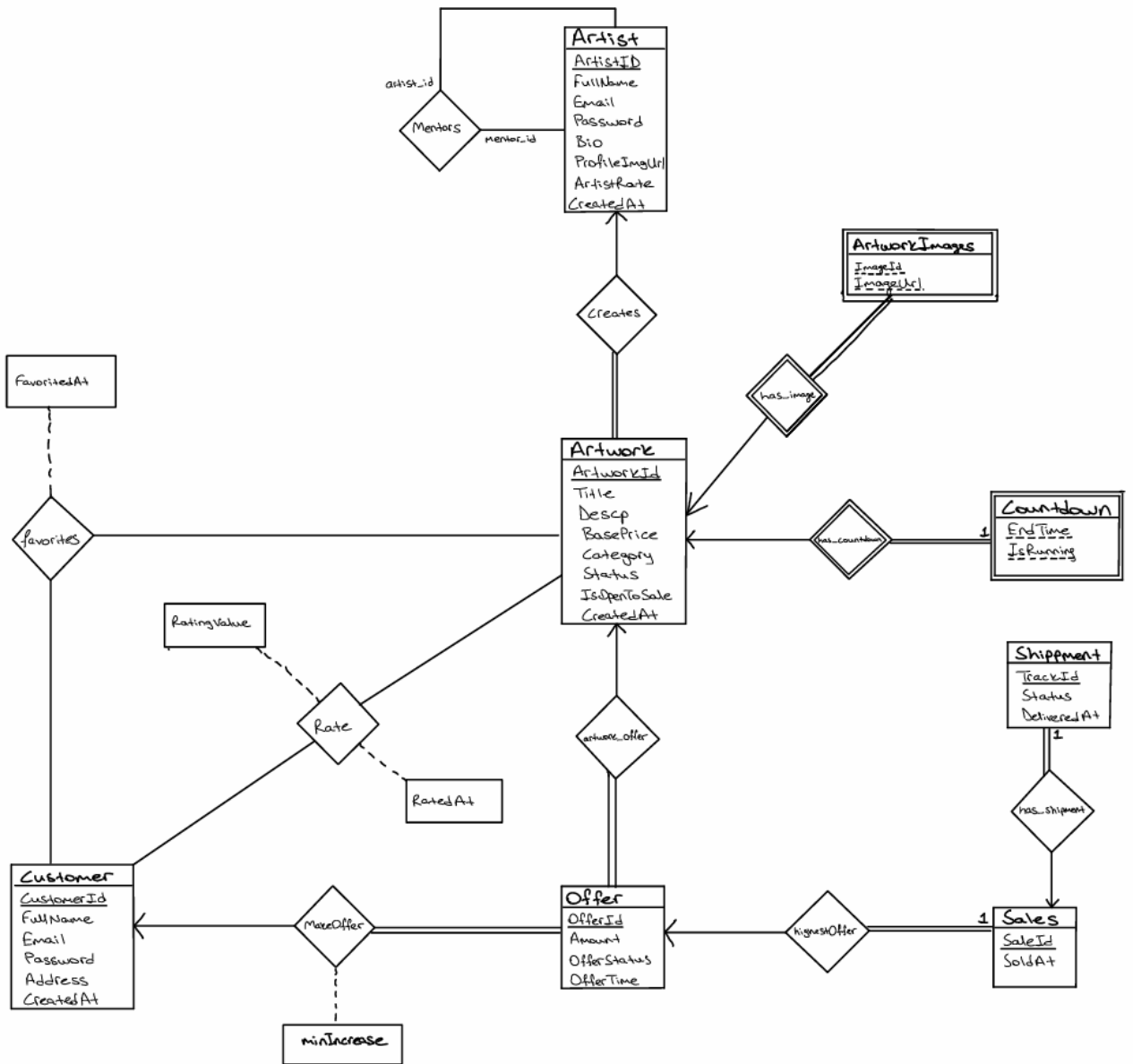


Yaşar University

Spring, 2024 - 2025

SE 2230 - Database Systems

Art Gallery System ER Diagram:



Reduction to Relation Schema

Entities

- **Artist**(ArtistId, FullName, Email, Password, Bio, ProfileImgUrl, ArtistRate, CreatedAt)
- **Customer**(CustomerId, FullName, Email, Password, Address, CreatedAt)
- **Artworks**(ArtworkId, ArtistId, Title, Descp, BasePrice, Category, Status, IsOpenToSale, CreatedAt)
- **Countdown**(ArtworkId, EndTime, IsRunning)
- **ArtworkImages**(ArtworkId, ImageUrl)
- **Offer**(OfferId, CustomerId, ArtworkId, Amount, OfferStatus, OfferTime, minIncrease)
- **Sales**(SaleId, OfferId, SoldAt)
- **Shipment**(TrackId, SaleId, Status, DeliveredAt)

Relationships

- **creates**(ArtistId, ArtworkId)
- **has_countdown**(ArtworkId, EndTime, IsRunning)
- **has_image**(ArtworkId, ImageUrl)
- **favorites**(CustomerId, ArtworkId, FavoritedAt)
- **rate**(CustomerId, ArtworkId, RatingValue, RatedAt)
- **make_offer**(CustomerId, OfferId, ArtworkId, minIncrease)
- **artwork_offer**(OfferId, ArtworkId)
- **highestOffer**(OfferId, SaleId)
- **has_shipment**(SaleId, TrackId)
- **Mentors**(artist_id, mentor_id)



Final Relation Schema

- **Customer**(CustomerId, FullName, Email, Password, Address, CreatedAt)
- **Artist**(ArtistId, FullName, Email, Password, Bio, ProfileImgUrl, ArtistRate, CreatedAt)
- **Artwork**(ArtworkId, ArtistId, Title, Descp, BasePrice, Category, Status, IsOpenToSale, CreatedAt)
 - ArtistId → Artist(ArtistId)
- **Countdown**(ArtworkId, EndTime, IsRunning)
 - ArtworkId → Artwork(ArtworkId)
- **ArtworkImages**(ArtworkId, ImageUrl, ImageId)
 - ArtworkId → Artwork(ArtworkId)
- **Favorites**(CustomerId, ArtworkId, FavoritedAt)
 - CustomerId → Customer(CustomerId)
 - ArtworkId → Artwork(ArtworkId)
- **Rate**(CustomerId, ArtworkId, RatingValue, RatedAt)
 - CustomerId → Customer(CustomerId)
 - ArtworkId → Artwork(ArtworkId)
- **Offer**(OfferId, CustomerId, ArtworkId, Amount, OfferStatus, OfferTime, minIncrease)
 - CustomerId → Customer(CustomerId)
 - ArtworkId → Artwork(ArtworkId)
- **Sales**(SaleId, OfferId, SoldAt)
 - OfferId → Offer(OfferId)
- **Shipment**(TrackId, SaleId, Status, DeliveredAt)
 - SaleId → Sales(SaleId)
- **Mentors**(artist_id, mentor_id)
 - artist_id → Artist(ArtistId)
 - mentor_id → Artist(ArtistId)