

University of Calgary

Progress Report:

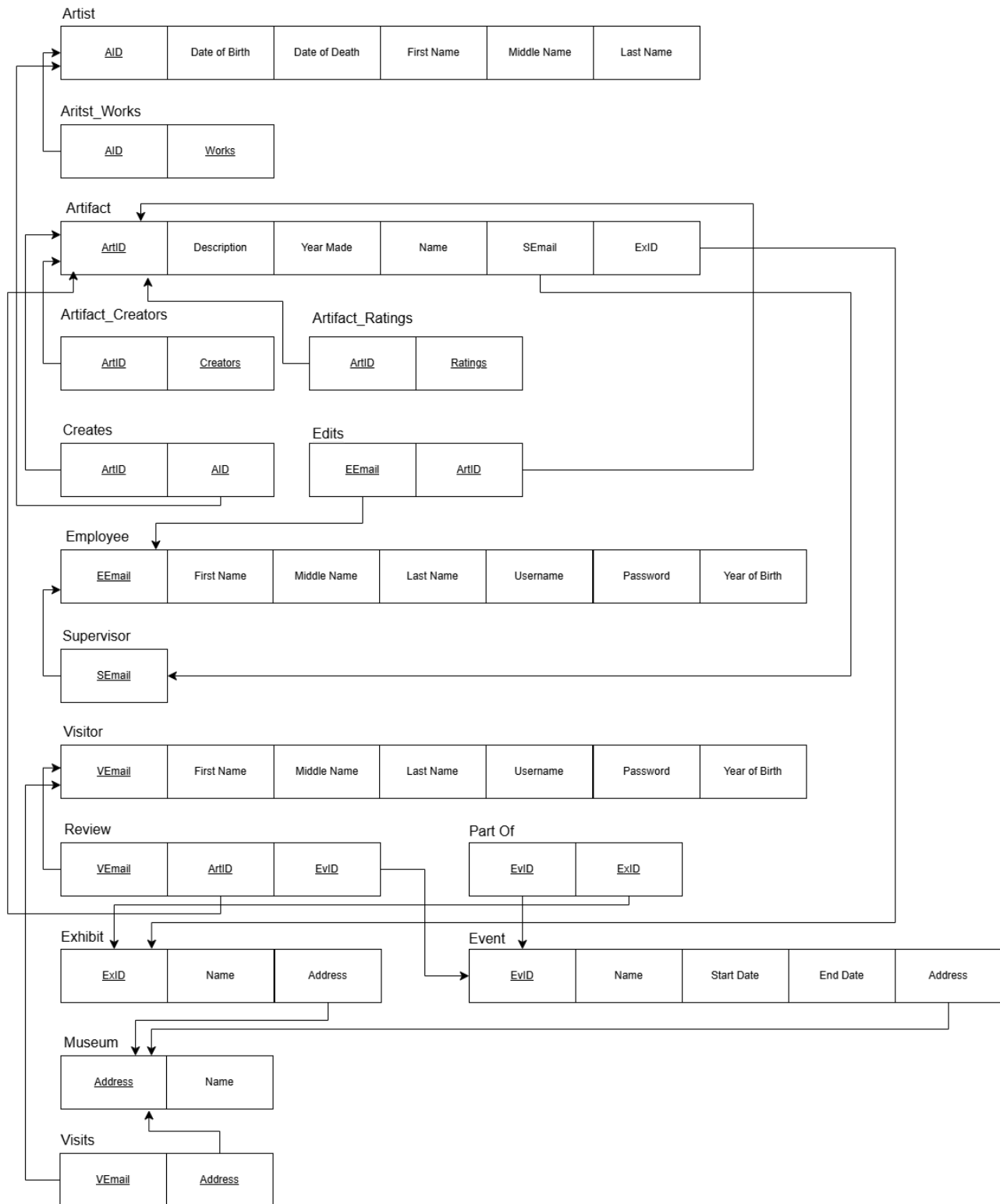
Relational Model Diagram

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CPSC 471 W25: Database Management Systems

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Diagram

Assumptions

ARTIST_WORKS relation has two candidate keys: AID and Works. The AID is also a foreign key that references the ARTIST relation's primary key.

ARTIFACT relation has two foreign attributes, where SEmail is referenced from the SUPERVISOR relation, and ExID is referenced from the EXHIBIT relation.

ARTIFACT_CREATORS relation has two candidate keys: ArtID and Creators. The ArtID is also a foreign key that references the ARTIFACT relation's primary key.

ARTIFACT_RATINGS is another relation that has two candidate keys: ArtID and Ratings. The ArtID is also a foreign key that references the ARTIFACT relation's primary key.

CREATES relation has two foreign keys: ArtID and AID. The ArtID is referenced from the ARTIFACT relation's primary key, and the AID is referenced from the ARTIST relation's primary key.

EDITS artifact has two foreign keys: EEmail and ArtID. EEmail is referenced from the EMPLOYEE relation's primary key, and ArtID is referenced from the ARTIFACT relation's primary key.

The SUPERVISOR relation has a primary key, SEmail. Its primary key is also a foreign key that was referenced from the EMPLOYEE relation's primary key.

REVIEW relation has three candidate keys: VEmail, ArtID, and EvID. Each of them are also foreign keys that were referenced from the primary keys of VISITOR relation, ARTIFACT relation, and EVENT relation, respectively.

PART_OF relation has two candidate keys: EvID and ExID. They are also foreign keys where EvID is referenced from EVENT relation's primary key, and ExID is referenced from EXHIBIT relation's primary key.

The EXHIBIT relation has one primary key: ExID. It also has a foreign attribute Address, referenced from the MUSEUM's primary key.

EVENT relation has one primary key: EvID. It also has a foreign attribute Address, referenced from the MUSEUM's primary key.

The MUSEUM relation has one primary key: Address.

Lastly, the VISITS relation has two candidate keys: VEmail and Address. These candidate keys are also foreign keys referenced from the primary keys of VISITOR relation and MUSEUM relation, respectively.