- Additional functional dependencies
  - Our company has multiple buildings
  - Each building has multiple conference rooms
  - Each building has multiple floors
  - Every conference room has a unique room number
  - Room numbers are formatted: [First Initial of the Building][Floor it's on][room]
  - Employees can submit multiple songs they enjoy
  - Employees can submit genres of music they enjoy
  - Employees can submit multiple playlists they enjoy
  - Employee can only have one favorite genre
  - All game names are unique

BuildingInformation
BuildingName (string/varchar(50)
NumberofFloors (int)
NumberofConferenceRooms (int)

Super Keys: $(2^3)-1=7$
1. BuildingName
2. NumberOfFloors
3. NumberOfConferenceRooms
4. BuildName, NumberOfFloors
5. BuildingName, NumberOfConferenceRooms
6. BuildingName, NumberOfFloors, NumberOfConferenceRooms
7. NumberOfFloors, NumberOfConferenceRooms

Candidate Keys:
1. BuildingName
2. BuildingName, NumberOfFloors
3. BuildingName, NumberConfenceRooms
4. BuildingName, NumberOfFloors, NumberOfConferenceRooms

Primary Key:
1. BuildingName

BuildingFloors
Floor (int)
ConferenceRoomNumber (int) FK to ConferenceRoomTable
BuildingName (string.varchar(50) FK To BuildingInformation

ConferenceRoom
RoomNumber (string/varchar(10))

Length (double)
Width (double)
Max seating capacity (int)
Number of windows (int)
Number of doors (int)
blackboard/whiteboard? (boolean)
Projector? (boolean)

Playlist
PlaylistName
SongName
ArtistNames

FavoriteSong
SongName
PersonName

EmployeeName
PersonName
Position
Manager
Age
FavoriteGenre

EmployeePlaylist
PersonName
PlaylistName

Song
SongName
Artist
Genre
ReleaseDate

Games in 1NF
GameName string/varchar(100)
NumberOfPlayers int
GameType varchar(50)
GameOwner varchar(100)
GameOwnerPosition varchar(50)
GameOwnerManager varchar(100)

Games
GameName string/varchar(100)
NumberOfPlayers int
GameType varchar(50)
GameOwner varchar(100)
GameOwnerPosition varchar(50)
GameOwnerManager varchar(100)
Songame
Genre
Artist

SuperKeys (2^6)-1=63

CandidateKeys:
GameName, GameOwner
GameName, GameOwner, GameManager

PrimaryKey
GameName, GameOwner

NumberOfPlayers -> GameName
GameType -> GameName
GameOwner -> GameName
GameOwnerPosition -> GameOwner
GameOwnerManagee -> GameOwner
GameName -> GameName

Games
GameName
Type
NumberOfPlayers

EmployeeGames
EmployeeName

GameName

Prizes
Name
Amount
Age?
Category?

Gifts
Names
Amount
Age
Category