

SE 2222 Database Design Proposal

Name – Surname: Ali Kağan Bertizlioğlu

Student ID: 19070001027

Name of the Suggested Project: Jail Management System

1. Introduction

My jail management system can be usable in any correctional facility. As you know administration, guards, staff and prisoners means huge crowded and it comes with huge data which needs to be kept in order and my system will make life easier to every people in the system.

2. Objectives

My database system defines structure, design and implementation of jail management system. My design will be keeping all data maintained, stable, catalogued and easy to access. Besides, you can create meaningful and helpful statistics with basic queries. All of them will satisfy more easy administration. Also, I will develop desktop app using Java.

3. Scope of the Design

My database system will have; people, prisoners, guards, staff, positions, prisoner positions, prisoner staff, old prisoners, cells, visitors, visits, criminal cases and prisoner problems.

My primary keys coloured in red and written in bold to help you to read. They are uniquely identifying their tables, that's the reason I choose them.

People = **peopleID**, Name, Surname, Birthdate, Gender, Adress, phoneNumber

Guards = **peopleID**, salary, height, weight

Prisoners = **peopleID**, height, weight, haircolor,spesificApperance, CellID

Staff = **peopleID**, Position, dateStarted, dateQuited, WorkingLength,positionID

StaffPositions = **positionID**,, salary, jobTitle, dutyExplanation

Prisoner Staff = **peopleID**, workingReason, StartWorkDate,
QuitWorkDate,prisonerPositionID

PrisonerPositions=**prisonerPositionID**,jobTitle,DutyExplanation,hourlyFee

Cells= **cellID**, cellName, cellCapacity

CriminalCases= **caseID**, reasonOfCase, DangerLevel, punishmentStartDate,
punishmentEndDate, prisonerID

oldPrisoners = **peopleID**, ReasonRelease, ReleaseDate

Visitors = **peopleID**, totalNumberOfVisit

Visits = **visitID**, peopleID, VisitingReason, visitingDate

Prisoner Problems= **problemID**, problemType, problemDescription, peopleID

My foreign keys are establishes meaningful connections between table's and their datas, to make it clear:

-PeopleID and [staffID,guardID,prisonerID,visitorID] has a both foreign key and primary key relationship.

- **For other foreign key's** instead of using redundant sentences I showed them in below with ER diagram.

