

Faculty of Science and Technology Department of Information Technology

IT3210

Database management system

Topic: Prisoner Data Management system

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Submitted to

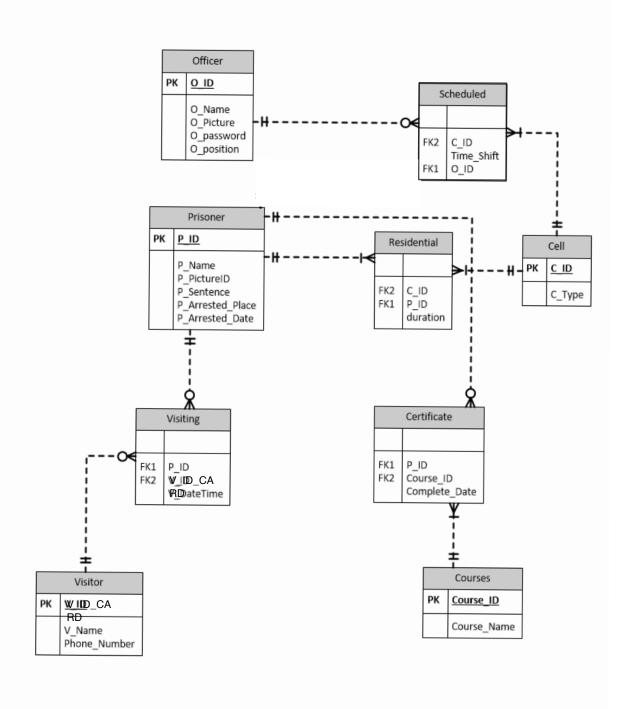
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Introduction

This system is about managing the prisoner's data management system. The system includes managing the prisoner's background information such as places they have arrested, their contact, sentences duration and their identity. Other information such as visiting frequency from visitor, their cell history and current stay in cell are also included in the system. Offices are able to use the system for searching, adding, updating the prisoner's information by using their identity to verify and function. The system also record for the prisoner's education system while they are serving in the prison, such as the courses they want to take and the courses they have completed. The system will separate the function for different officer to allow them to perform different scope. one is to allow the the officer to login with their identity for recording the new prisoner's information, updating and record for the visitor's information to be recorded in the system and another function is allow Officer Supervisor to set the scheduled for different officers's shift on whom they should in charge and during what time.

Scope

- Search Officers can search both officers, prisoners information and
- Add Officers can add new prisoner's information, visitor information, edit and delete old and new prisoner's information
- visitor registration Officer can record the visiting time and date of the visitor and relationship between them
- cell information Officer can view which room of the particular prisoner is staying and which officer is in-charged of the prisoner
- Prisoner's education Officer can view what the prisoners had learnt or what they are learning now
- Adding new officer and updating prisoner's information Officer can add new officer information and updating prisoner's information



ER diagram

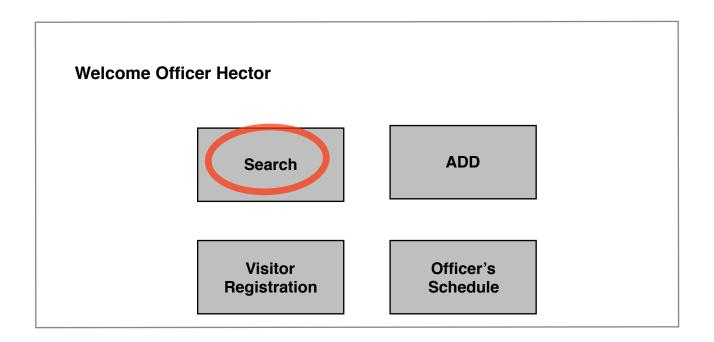
Functional Design and SQL request

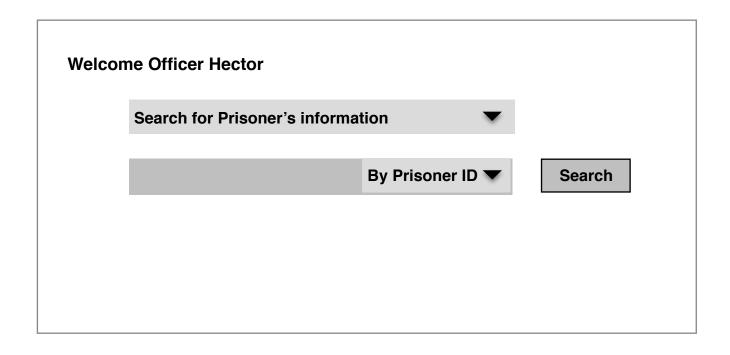
Prisoner Data Management System has only one user

- Office

	Officer login
ID :	
Password :	
	login

SELECT O_ID from Officer where O_ID = {ID} AND O_Password = {Password}





Search for Prisoner Information

SELECT * From Prisoner where P_ID = {Prisoner_ID}

SELECT * From Prisoner where P_ARRESTED_PLACE = {Prisoner_ARRESTED_PLACE}

SELECT * From Prisoner where P_ARRESTED_Date = {Prisoner_ARRESTED_DATE}

SELECT * From Prisoner where P_SENTENCE = {Prisoner_SENTENCE}

SELECT * From Prisoner where P NAME = {Prisoner NAME}

SELECT * FROM residential where P_ID = {Prisoner_ID}

Search for visiting information for particular prisoner

SELECT * FROM Visitor LEFT OUTER JOIN Visiting ON Visitor.V_ID = Visiting.V_ID WHERE P ID = {PRISONER ID}

SELECT * FROM Visitor LEFT OUTER JOIN Visiting ON Visitor.V_ID = Visiting.V_ID WHERE V ID = {VISITOR ID}

Search for Cell information

SELECT * FROM Residential WHERE P_ID = {PRISONER_ID}

SELECT * FROM Residential WHERE C ID = {CELL ID}

Search for officer information

SELECT * FROM SCHEDULED WHERE O_ID = {OFFICER_ID}

SELECT * FROM SCHEDULED WHERE TIMIE SHIFT = {TIME SHIFT}

SELECT * FROM SCHEDULED WHERE C_ID = {CELL_ID}

Search for Education information

SELECT * FROM CERTIFICATE WHERE P ID = {PRISONER ID}

SELECT * FROM CERTIFICATE WHERE COURSE ID = {COURSE ID}

SELECT * FROM CERTIFICATE WHERE COMPLETED DATE = {COMPLETED DATE}

SELECT * FROM COURSE WHERE COURSE_ID = {COURSE_ID}

Example of Query output

ı	P_ID	P_NAME	P_PICTURE_ID	P_SENTENCE_DURATION	P_ARRETED_PLACE	P_ARRESTED_DATE
ı	5	Pauk walker	PA234324	10 year	bio	2016-11-19
	_					

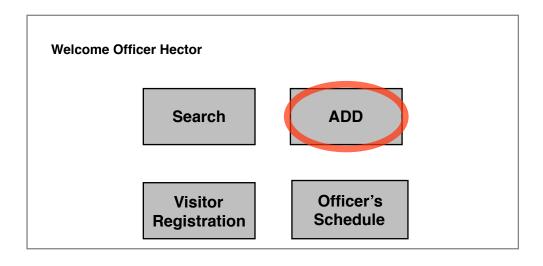
V_ID	V_NAME	V_PHONE	P_ID	V_TIME	V_Relationship
1101804	Phyu Phyu	958579608	5	2016-08-11 10:20:00	Mom

Welcome Officer H	ector		
Search Result :	for 123456		
Prisoner ID:	12346	Cell Number	A100
Name :	Champ rattaa	Cell Type	Double
Picture :		Stay Duration	10/10/2016 To 12/12/2019
Sentence Duration	Add Photo 10 year	Learning : Course Name :	
Arrest Place	ABAC	Course ID : Attended Duration :	
Arrest Date	2016-11-15		
	Update		

UPDATE `Prisoner` SET

`P_ID`={DEFAULT}, `P_NAME`={P_NAME}, `P_PICTURE_ID`={P_PICTURE_ID}, `P_SENTENC
E_DURATION`={P_SENTENCE_DURATION}, `P_ARRETED_PLACE`={P_ARRESTED_PLACE}, `P_ARRESTED_DATE`={P_ARRESTED_DATE} WHERE P_ID = {P_ID}
UPDATE `Cell` SET 'C_ID' = {Cell_number}, C_TYPE = { Cell_Type}
UPDATE `Residential` SET 'C_ID' = {Cell_number}, P_ID = {P_ID}, C_Stay_Duration =
[Stay_Duration}

UPDATE `Course` SET 'Course_ID' = {Course_ID}, Course_Name = {Course_Name},
Completed_date = {attended_duration}
UPDATE `Certificate` SET Completed_date = {attended_duration} WHERE `P_ID`={P_ID}

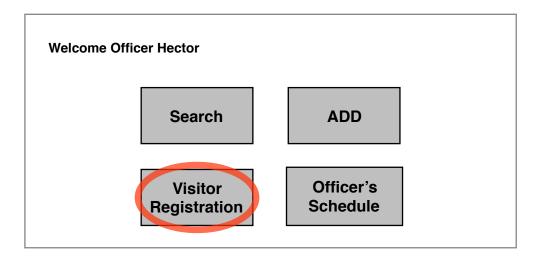


Welcome Officer	Hector		
Select On	Prisoner ▼	Cell Number	
Prisoner ID:		Cell Type	
Name :			
Picture :		Stay Duration	
	Add Photo		
Sentence Duratio	or		
Arrest Place]	
Arrest Date]	
	Add		

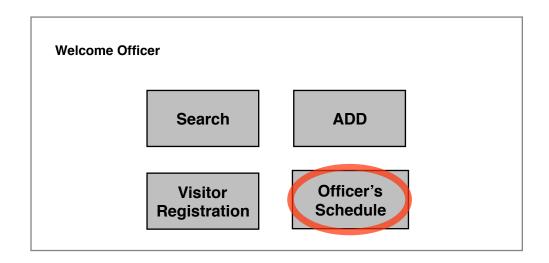
INSERT INTO `Prisoner`(`P_ID`, `P_NAME`, `P_PICTURE_ID`, `P_SENTENCE_DURATION`, `P_ARRETED_PLACE`, `P_ARRESTED_DATE`) VALUES (DEFAULT,'aa','22222','12 years','bangkok','2016-12-03')
INSERT INTO `Cell`('C_ID' = {Cell_number}, C_TYPE = { Cell_Type})
INSERT INTO `Residential` ('C_ID' = {Cell_number}, P_ID = {P_ID},C_Stay_Duration = [Stay_Duration})

Welcome Officer	Hector
Select On	Officer ▼
Officer ID:	
Name :	
Password :	
Position :	
Picture :	Add Photo
	Add

INSERT INTO `Officer`(`O_ID`, `O_NAME`, `O_PICTURE_ID`, `O_PASSWORD`, `O_POSITION`) VALUES ({DEFAULT},{officer_name},{Picture},{Password},{Position})



Welcome Officer H	Welcome Officer Hector							
Visitor Informati	ion							
Visitor I.D. Card:	x-xxx-xxxx							
Prisoner Name :	Hector	ID : [123123					
Phone Number	09-212341-1							
Relationship	МОМ							
Date/time	2016-11-15 10:33 AM							
	Register							



Welcome Officer	ector						
Officer Schedu	Officer Schedule						
Officer ID :	XXXX						
Officer Name :	Hector						
Cell Id	A1-A5						
Time Shift	2016-11-23 9.00 AM to 5.00 PM						
	Set Update						

 $\label{thm:condition} \mbox{SELECT `O_NAME` FROM OFFICER WHERE O_ID= {Officer_ID} \\ \mbox{INSERT INTO Scheduled (`C_ID`,`Time_shift`,`O_ID`) VALUE ({cell_ID},{Time_shift}, {Officer_ID}) \\ \mbox{Officer_ID})$

Data Dictionary Prisoner

Column	Туре	Null	Description	Example
P_ID (Primary Key)	Varchar(7)	No	Unique key to identify Each prisoner	A12356
P_NAME	text	No	Prisoner name	Kenny
P_PICTURE_ID	Varchar(200)	No	Prisoner Pictures	PK1234567
P_SENTENCE_DURAT ION	text	No	Prisoner sentence duration	10 year
P_ARRETED_PLACE	text	No	Prison arrested place	Bangkok
P_ARRESTED_DATE	Date	No	Prison arrested date	2014-07-19

Visitor

Column	Туре	Null	Description	Example
V_ID_CARD (Primary Key)	Varchar(20)	No	Unique key to identify each visitor	V22233
V_NAME	text	No	Visitor name	Garila
V_PHONE	int(10)	No	Visitor Phone number	085-9473-568

Visiting

Column	Туре	Null	Description	Example
P_ID (Foreign Key)	Varchar(7)	No	Unique key to identify Each prisoner	A123456
V_ID_CARD (Foreign Key)	Varchar(20)	No	Unique key to identify each visitor	1101983494
V_TIME	DateTime	No	Visiting time	2016-04-33 13.00 PM
V_Relationship	text	No	Relationship of visitor and prisoner	DAD

Residential

Column	Туре	Null	Description	Example
P_ID (Foreign Key)	Varchar(7)	No	Unique key to identify Each prisoner	A12356
C_ID (Foreign Key)	Varchar(7)	No	Unique key to identify each cell	A001
C_Stay_Duration	Date	No	Time Duration to show history stay of each prisoner	2015-10-12 to 2016-11-23

Cell

Column	Туре	Null	Description	Example
C_ID(Primary Key)	Varchar(7)	No	Unique key to identify each cell	A001
C_TYPE	Text	No	Types of cell	double

Schedule

Column	Туре	Null	Description	Example
P_ID (Foreign Key)	Varchar(7)	No	Unique key to identify Each prisoner	A12356
C_ID (Foreign Key)	Varchar(7)	No	Unique key to identify each cell	A001
O_ID (Foreign Key)	Varchar(7)	No	Unique key to identify each officer	O876542
Time_Shift	datetime	No	Officer's working scheduled	03/12/2016(Monda y) 5:00Am to 5:00pm

Officer

Column	Туре	Null	Description	
O_ID(Primary Key)	Varchar(7)	No	Unique key to identify each officer	O876542
O_NAME	text(20)	No	Officer name	Wasin
O_PICTURE_ID	Varchar(200)	No	Officer pictures	OW00823
O_PASSWORD	Varchar(10)	No	Password that officers use to log in to system	popo0102
O_POSITION	text	No	Officer's position	Supervisor or officer

Education

Column	Туре	Null	Description	
P_ID (Foreign Key)	Varchar(7)	No	Unique key to identify Each prisoner	A12356
Course_ID (Foreign Key)	Varchar(7)	No	Unique key to identify each course	IT3210
Complete_Dtae	datetime	No	Time duration to show when did the prisoner complete each course	12/02/2014 to 3/04/14

Course

Column	Туре	Null	Description	
Course_ID(Primary Key)	Varchar(7)	No	Unique key to identify each course	IT3210
Course	text	No	Course name	Database Management System