

# CPAN 111 DATABASE CONCEPTS AND DESIGN

## ASSIGNMENT 3 (Due 23-JUL-24)

Student ID	Last Name	First Name	Phone	State License	License Number	Ticket Number	Date	Code	Fine
38249	Brown	Thomas	111-7804	FL	BRY 123	15634	10/17/2020	2	25
						16017	11/13/2020	1	15
82452	Green	Sally	391-1689	AL	TRE 141	14987	10/05/2020	3	100
						16293	11/18/2020	1	15
						17892	12/13/2020	2	25

- Convert this table into 1NF.
- Give specific examples of where the three anomalies occur in this relation.
- Identify and write all functional dependencies.
- Identify the Primary Key.
- Create a relational model of this table in 1NF.
- Identify and write all partial functional dependencies.
- Show the relational model that would exist after normalizing this relation to 2NF.
- Identify and write all transitive functional dependencies.
- Show the relational model that would exist after normalizing this relation to 3NF.
- Can the anomalies you discussed previously occur now with your normalized relations?
- Create and submit final logical and relational model using SQL modeler and also generate DDL script.
- List assumptions you made (if any).

### SUBMISSION GUIDELINES

- Submit your work (word or pdf) in the Assignment Submission Folder on Blackboard (Submission of Assignment3) before the due date/time.*
- Word or pdf document should contain your information: full name, student id*
- LATE SUBMISSION will be penalized 5% per day up to 5 days.*