Normal Form Assignment:

Question 1:

Table 2.1 STUDENTFINE records data on traffic offences by students in a college.

TABLE 2.1   STUDENTFINE

StudentID	Name	LicenseNo	CarReg	ReceiptNo	Date	OffenceCode	Fine(RM)
F1011	CK Fong	P100	JGK9201	00-345	10/03/06	2	30.00
				00-690	15/03/06	1	20.00
				00-810	20/03/06	2	30.00
L782	AdamJames	P290	JJL99	00-459	13/03/06	1	20.00
H762	MalaDewi	P764	JJK7654	00-564	12/03/06	3	40.00
				00-770	19/06/06	2	30.00

A. Table 2.1 is said to be an unnormalized table. Why?

B. Transform the unnormalized Table 2.1 into a first normal form (1NF) table. Show the transformed 1NF table. What is the primary key for this new INF table?

C. Write the functional dependencies from the Transformed 1NF table.

D. As a last step convert the 1NF into 2NF.

Question 2:

A. What is normalization and why is it needed?

B. Explain the difference between an insert anomaly, update anomaly and delete anomaly.