Database exercises

1: The following three tables include data about employees and fine tickets.

EMPLOYEE

Emp_ID	L_Name	F_Name	Phone_No	State_Lic	Lic_No
38249	Ali	Mohand	111-7804	New York	BRY 123
82453	Saed	Mazen	391-1689	New Mexico	TRE 141

TICKET

Ticket#	Date	Code	Emp_ID
46383	10/17/08	2	38249
49696	11/13/08	1	38249
49585	10/05/08	3	82453
48575	11/18/08	1	82453
59686	12/13/08	2	82453

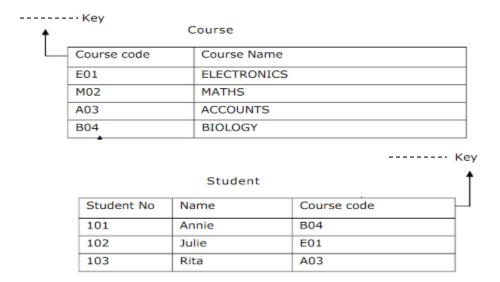
TICKET_CODE

Code	Fine	Violation
1	\$15	Longer than 3
		hours
2	\$25	On pavement
3	\$100	Paralyze
		parking

Based on the given above tables answer the following questions:

- 1. The attributes of table TICKET is: Ticket #,Date,Code,Emp_ID
- 2. The primary key of TICKET_CODE table is: Code
- 3. What is the name of employee who had the ticket # "49696"? Ali Mohand
- 4. What is the total of fines payable by employee Ali Mohand? \$40
- 5. Which State does the employee Saed Mazen belong to? New Mexico
- 6. What is the ticket number of the parking violation that was committed on 10/05/08 and how much is it? 49585,\$100

2: Complete the missing words below, then answer the questions.



- 1. The entities in the relations above are:-----Course, Student------
- 2. Name the attributes of the Course table.-----Course code, Course Name------
- 3. How many records in the Student table?----3-----
- 4. Annie studies Biology course.(True, false) **True**

3: The following two tables include data about professors and courses.

Courses

Course_ID	Course_Name	Pro.ID	
38	MIS 201	333	
39	MIS 433	888	
40	MIS 201	222	
65	MIS 333	333	
82	MIS 214	555	

Professors

Pro.ID	Pro.Name	Salary	Hire date
333	Mazen Hani	20,000	22-10-2009
888	Fahad Saad	15,000	11-3-2012
222	Khaled Omar	18,000	4-3-2010
555	Ali Othman	13,000	13-4-2013

Based on the given above tables answer the following questions:

- 1. The attributes of table Professors are: **Pro.ID,Pro.Name,Salary,Hiredate**
- 2. The primary and foreign key of Course table are:

Primary key...... Course_ID

Foreign key... Pro.ID

- 3. What are the name of professors who teach MIS 201? Mazen Hani, Khaled Omar
- 4. What are the name of the courses that Dr.Mazen Hani teaches? MIS 201,MIS 333
- 5. When Dr. Fahad was hired **and** how many courses does Dr. Fahad teach?

11-3-2012, 1

4. The following two tables include data about School and students .

School Table

ID	Name	Total Cost for a year
S001	University of Technology	10,000
S002	University of Applied Science	20,000

Student Table

School ID	Student ID	Name	DOB	Semester
S001	UT-1000	Tommy	05/05/1995	$1^{st}+2^{nd}$
S001	UT-1001	Better	14/04/1996	2nd
S002	UAS-1000	Linda	02/09/1995	1 st + 2 nd
S002	UAS-1001	Jonathan	22/3/1995	$1^{st} + 2^{nd}$

- 1- What are the entities? **School Table**, **Student Table**
- 2- What are the primary and foreign key for Student table? **Student ID(Primary key) SchoolID (Foreign key)**
- 3- How many students studying at University of Applied Science? And how much their total cost? **Two Students**, **40**,000
- 4- How much the total cost that Better has to pay? 5000
- 5- How many record at Student table? Four