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

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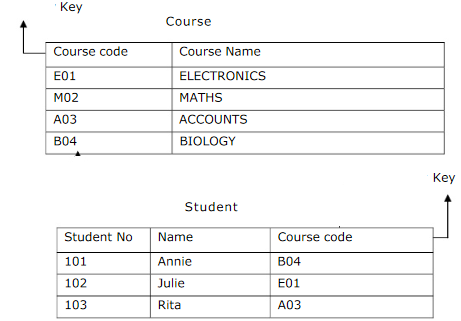
**EMPLOYEE**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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: |
| 1. The primary key of TICKET\_CODE table is: |
| 1. What is the name of employee who had the ticket # “49696”? |
| 1. What is the total of fines payable by employee Ali Mohand? |
| 1. Which State does the employee Saed Mazen belong to? ­­­ |
| 1. What is the ticket number of the parking violation that was committed on 10/05/08 and how much is it? |

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



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

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

**Courses Professors**

|  |  |  |
| --- | --- | --- |
| **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 |
|  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **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**: [1 Pt]** |
| 1. The primary and foreign key of Course table are: **[1 Pt]**   Primary key…………….  Foreign key……………. |
| 1. What **are** the name of professors who teach MIS 201? **[1 Pt]** |
| 1. What are the name of the courses that Dr.Mazen Hani teaches? **[1 Pt]** |
| 1. When Dr. Fahad was hired **and** how many courses does Dr. Fahad teach? **[1 Pt]­­­** |

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 | 1st+ 2nd |
| S001 | UT-1001 | Better | 14/04/1996 | 2nd |
| S002 | UAS-1000 | Linda | 02/09/1995 | 1st+ 2nd |
| S002 | UAS-1001 | Jonathan | 22/3/1995 | 1st+ 2nd |

1. What are the entities?
2. What are the primary and foreign key for Student table?
3. How many students studying at University of Applied Science? And how much their total cost?
4. How much the total cost that Better has to pay?
5. How many record at Student table?