Student Name:

Class assignments are assigned on a weekly basis. Please ensure to review the following PPT/Video recordings prior to completing this assignment.

* Database Characteristics
* Relational Database Themes

There are three separate questions in this class assignment. Please ensure to answer them all completely.

The answers for class assignments will be posted the week after. It is the student’s responsibility to review the answers posted to the class assignments. Class assignments are graded for completion so it is a learning opportunity for you. However, grades will be assigned for efforts put in to class assignments. All questions need to be attempted.

1. Database Characteristics (link below and explained in the video)

<https://opentextbc.ca/dbdesign01/chapter/chapter-3-characteristics-and-benefits-of-a-database/>

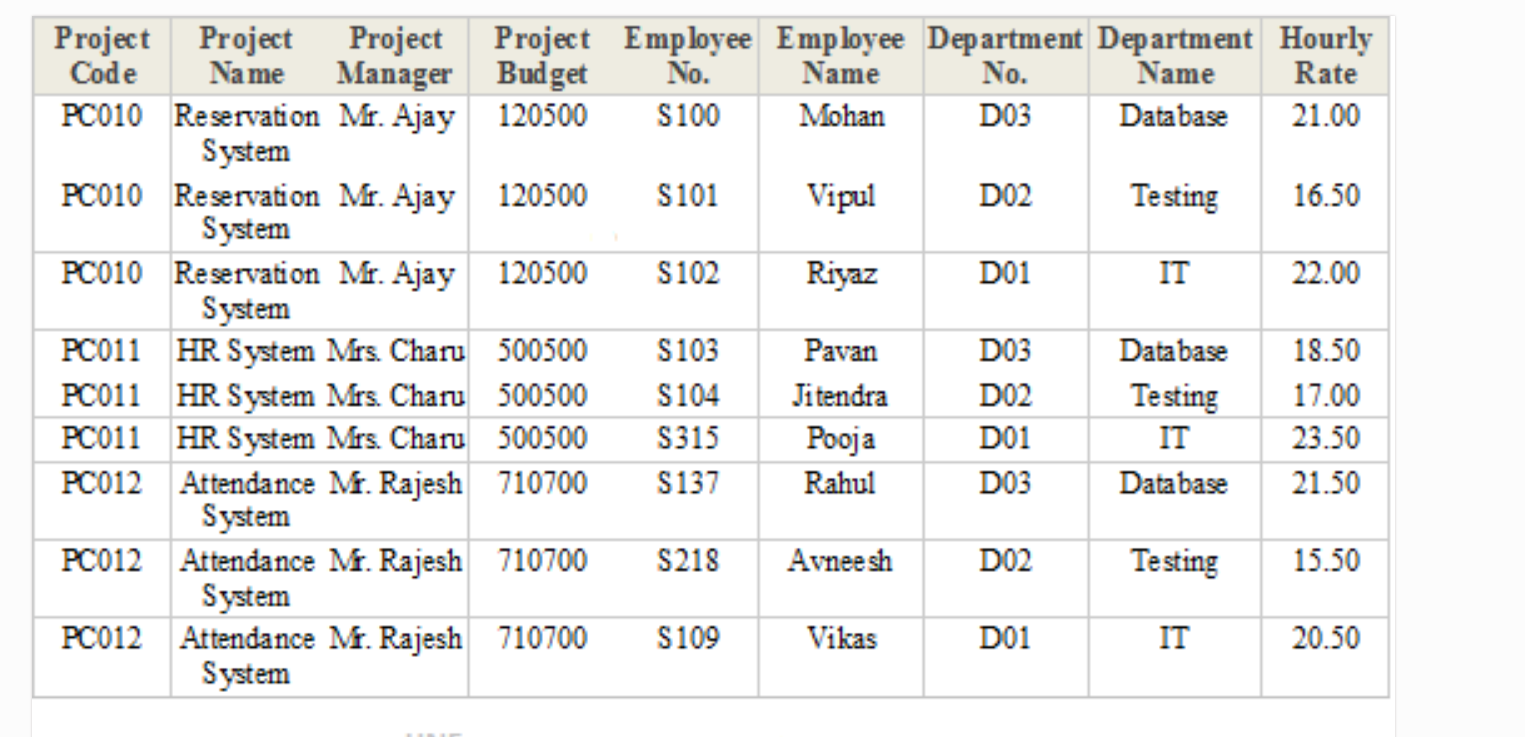
(Pick from one of the following to match the definition below)

* Self-describing nature of databases
* Multi-user system
* Control of data redundancy
* Enforcement of integrity
* Restriction of unauthorized access
* Transaction Processing
* Multiple views of data
* Backup and recovery
* Ensuring that data in the database is as much as possible stored in one location -> Control of data redundancy
* Ensuring for example that postal zip codes are all entered in the same format in a database table -> Enforcement of integrity
* Databases are designed to support daily operations of a business -> Transaction Processing
* Protection of data from loss-> Backup and recovery
* Students not being able to change grades -> Restriction of unauthorized access
* Many users being able to access the database at the same time-> Multi-user system
* The database not only contains data but also meta data. Also, by looking at the table fields you can get an idea of what kind of data is stored. -> Self-describing nature of databases
* Providing different groups of users in an organization with access to only the data that the group needs for their function. Example Parking Services needs access to only employee car data but does not need to see employee salary information. -> Multiple views of data

1. Refer to the following relational form and identify the themes

PARKING\_DECAL(CarVin, CarMake, CarModel, EmployeeID, EmployeeLastName, EmployeeFirstName, EmployeeDepartment, DecalID, DecalIssueDate)

1. Car
2. Employee
3. ParkingDecal Info
4. Refer to the following list of data



What are the themes that you can identify?

1. Project
2. Employee
3. Department
4. Project Assignments