**Set 5 - Assignments on Creating Tables**

**Q.1.** Create the table **Customer\_Details** having following specifications:

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Constraints** |
| Customer\_Id | Numeric with maximum 4 digits | Auto generated. The starting value must be 501 |
| C\_FirstName | Character | Ensure numeric value cannot get entered and special characters cannot get entered |
| C\_LastName | Character | Ensure numeric value cannot get entered and special characters cannot get entered |
| C\_Temperature | Number | There can be maximum 3 digits before decimal and only 2 digits after decimal |
| Date\_of\_Enrollment | Date | Cannot be empty and should be any date of 2nd or 3rd quarter of 2019 of Indian fiscal year. |
| MailId | Character | Cannot repeat & is mandatory |
| Customer\_Registration\_No | Character | The first 4 characters should be ZEN- and the last character should be K. In between these characters there should be exactly 4 characters. |
| Customer\_Token\_Number | Character, fixed length of 10 | Should be always blank, i.e. cannot be entered by user. |
| Customer\_Ref\_Number | Character | Should be in upper case only |
| Date\_of\_Processing | Date | Date\_of\_Processing should be always greater than Date\_of\_enrollment & the difference should not exceed 10 days. |
| Processing\_Cost | Cannot have any decimals | Cannot be less than 500 |
| Service\_Charge | Numeric | Should be less than or equal to 12% of Processing\_Cost |

Q.2. There is a Computer Training Institute named **Mandar's BI** which conducts trainings on **Power BI**.

Create following relational tables**, which will depict the flow from initial student’s enquiry to dispatching certificate after completing the project.** Also enter some **meaningful** records for testing purpose.

Table 1: **Enquiry\_Master**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Rules and other details** |
| Enquiry\_ID | Alphanumeric | Cannot repeat and cannot be blank |
| Enquiry\_Name | Characters | May be blank |
| Enquiry\_Mobile\_Number | Numeric | Cannot be blank |
| Enquiry\_Date | Date | Cannot be blank |
| SalesmanID | Alphanumeric | Can repeat, but cannot be blank |

Table 2: **Enrollment\_Master**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Rules and other details** |
| Enrollment\_ID | Alphanumeric | Must be taken from Enquiry\_ID of Enquiry\_Master |
| Enrollment\_Name | Characters | Cannot be blank |
| Enrollment\_Mobile\_Number | Numeric | Cannot be blank |
| Enrollment\_Date | Date | Cannot be blank |
| Fees | Numeric | Cannot be blank, default value 10000 |

Table 3: **Training\_Batch**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Rules and other details** |
| Student\_ID | Alphanumeric | Must be taken from Enrollment\_ID of the table Enrollment \_Master |
| Batch\_ID | Alphanumeric | Cannot be blank |
| Batch\_Type | Characters | Cannot be blank, can be either Online or Physical Classroom |
| Trainer\_ID | Alphanumeric | Cannot be blank |

Table 4: **Post\_Training\_Project**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Rules and other details** |
| Student\_ID | Alphanumeric | Must be taken from Student\_ID of the table Training\_Batch |
| Project\_ID | Alphanumeric | Cannot be blank |
| Project\_Start\_Date | Date | Cannot be blank |
| Project\_End\_Date | Date | Cannot be blank |

Table 5: **Certificate\_Details**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Rules and other details** |
| Student\_ID | Alphanumeric | Must be taken from Student\_ID of the table Post\_Training\_Project |
| Certificate\_ID | Alphanumeric | Cannot be blank and cannot repeat |
| Date\_Of\_Issue | Date | Cannot be blank |

**Draw the ERD for the above tables.**