

Dept.ofArtificialIntelligenceandMachineLearning

Mini-Project-DatabaseManagementSystems

Database designing is the first stage of the DBMS based projects. Hence for the topicsallotted to you in the portal, prepare the following table. This table can help to draw ERdiagramusingERDPlustool.SubsequentlyRelationalschemaandtablescanbegenerated. Teams should come for discussion of this table and once finalized proceedwithdiagram.Bring softcopy and avoidhard copies.

**Entities:(at least3)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.No.** | **Entity** | **Attributes** | **KeyAttribute** |
| 1. | BOOK | BOOK ID,NAME, PUB NAME,  SEM NO,SUBJECT | BOOK ID |
| 2. | STUDENT | STUDENT ID, NAME, EMAIL,  MOB NO, SEM NO | STUDENT ID |
| 3. | PUBLISHER | PUB ID, PUB NAME, ADRESS, SUBJECT | PUB ID |
| 4. | SEMESTER | SEM NO, SUBJECT | SEM NO |
| 5. | BOOK LENDING | BOOK ID, STUDENT ID , SUBJECT, DATE&TIME | BOOK ID |

**RelationshipsbetweenEntities(at least2)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **Relationship**  **Name** | **Participating**  **Entities** | **Participation**  **Constraint** | **Cardinality**  **Ratio** |
| 1. | READS | STUDENT,BOOK | SEM NO |  |
| 2. | PUBLISHED BY | BOOK,PUBLISHER | PUB NAME |  |
| 3. | BORROW | BOOK,  BOOK LENDING | BOOK ID |  |
| 4. | TOPIC | BOOK,SEMESTER,  BOOK LENDING | SUBJECT |  |
| 5. |  |  |  |  |