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**Table: STUDENT**

**Primary Key: STUDENTID, STUDENTNO**

**Description: This table contains all basic information about the Student.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **STUDENTID** | **INTEGER(10)** | **PRIMARY KEY, AUTO\_INCREMENT** |
| **STUDENTNO** | **VARCHAR(50)** | **PRIMARY KEY** |
| FIRSTNAME | VARCHAR(50) | NOT NULL |
| LASTNAME | VARCHAR(50) | NOT NULL |
| GENDER | VARCHAR(50) | NOT NULL |
| PERMANENTADDRESS | VARCHAR(50) | NOT NULL |
| TEMPORARYADDRESS | VARCHAR(50) | NULL |
| CITY |  | NOT NULL |
| COUNTRY | VARCHAR(50) | NOT NULL |
| PHONENO | INTEGER(50) | NOT NULL |
| EMAILID | VARCHAR (50) | NOT NULL |
| DATEOFBIRTH | DATE | NOT NULL  (Date of Birth no greater than Current Date and Date of Joining no less than Date of Birth) |
| DATEOFJOINING | DATE | NOT NULL  (Date of joining should be greater than Date of Birth) |
| STARTDATE | DATE | NOT NULL |
| ENDDATE | DATE | NOT NULL |
| **MODIFIEDDATE** | **DATE** | **DEFAULT “TODAY DATE”** |
| **ISDELETED** | **Boolean** | **DEFAULT “TRUE”** |
| **USERID** | **VARCHAR(50)** | **CURRENT USER** |

**Table: STUDENTEMERGENCY**

**Primary Key: STUDENTID, STUDENTNO**

**Description: This table contains Emergency details about the Student.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **STUDENTEMERGENCYID** | **INTEGER(10)** | **PRIMARY KEY, AUTO\_INCREMENT** |
| **STUDENTNO** | **VARCHAR(50)** | **FOREIGN KEY REFRENCES STUDENTNO FROM STUDENT TABLE** |
| CONTACTNAME | VARCHAR (50) | NULL |
| CONTACTNUMBER | INTEGER(50) | NULL |
| RELATION | VARCHAR (50) | NULL |
| ADDRESS | VARCHAR (50) | NULL |
| CITY | VARCHAR (15) | NULL |
| COUNTRY | VARCHAR(50) | NOT NULL |
| EMAILID | VARCHAR (50) | NOT NULL |
| **MODIFIEDDATE** | **DATE** | **DEFAULT “TODAY DATE”** |
| **ISDELETED** | **Boolean** | **DEFAULT “TRUE”** |
| **USERID** | **VARCHAR(50)** | **CURRENT USER** |

**Table: DEPARTMENT**

**Primary Key: DEPARTMENTID, DEPARTMENTNO**

**Description: This table contains all information about the Departments in the College.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **DEPARTMENTID** | **INTEGER(10)** | **PRIMARY KEY, AUTO\_INCREMENT** |
| **DEPARTMENTNO** | **VARCHAR (50)** | **PRIMARY KEY** |
| DEPARTMENTNAME | VARCHAR (50) | NOT NULL |
| HEADOFTHEDEPARTMENT | VARCHAR (50) | NOT NULL |

**Table: COURSE**

**Primary Key: COURSEID, COURSECODE**

**Description: This table contains all course information in each department.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **COURSEID** | **INTEGER(10)** | **PRIMARY KEY, AUTO\_INCREMENT** |
| **COURSECODE** | **VARCHAR(50)** | **PRIMARY KEY** |
| COURSENAME | VARCHAR(50) | NOT NULL |
| NOOFCREDITS | INTEGER(10) | DEFAULT “1” |
| DEPARTMENTID | INTEGER(10) | FOREIGN KEY REFRENCES DEPARTMENTID FROM DEPARTMENT |
| STARTDATE | Date | NOT NULL |
| ENDDATE | Date | NOT NULL |
| **MODIFIEDDATE** | **DATE** | **DEFAULT “TODAY DATE”** |
| **ISDELETED** | **Boolean** | **DEFAULT “TRUE”** |
| **USERID** | **VARCHAR(50)** | **CURRENT USER** |

**Table: SUBJECT**

**Primary Key: SUBJECTID**

**Description: This table contains all subject Details.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **SUBJECTID** | **INTEGER(10)** | **PRIMARY KEY, AUTO\_INCREMENT** |
| SUBJECTNAME | VARCHAR(50) | NOT NULL |
| SUBJECTCODE | INTEGER(10) | NOT NULL |
| SUBJECTCREDIT | INTEGER(10) | DEFAULT “1” |
| COURSEID | INTEGER(10) | FOREIGN KEY REFRENCES COURSEID FROM COURSE |
| ENDDATE | DATE |  |
| **MODIFIEDDATE** | **DATE** | **DEFAULT “TODAY DATE”** |
| **ISDELETED** | **Boolean** | **DEFAULT “TRUE”** |
| **USERID** | **VARCHAR(50)** | **CURRENT USER** |

**Table: GROUP**

**Primary Key: GROUPID**

**Description: This table contains group information.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **GROUPID** | **INTEGER(10)** | **PRIMARY KEY, AUTO\_INCREMENT** |
| SHIFT | VARCHAR (50) | NOT NULL |
| SEMESTER | VARCHAR (50) | NOT NULL |
| CLASSROOMNO | VARCHAR (50) | NOT NULL |
| INTAKE | VARCHAR (50) | NOT NULL |
| FACULTYINFOID | INTEGER(10) | FOREIGN KEY REFRENCES FACULTYID FROM FACULTY TABLE |
| **MODIFIEDDATE** | **DATE** | **DEFAULT “TODAY DATE”** |
| **ISDELETED** | **Boolean** | **DEFAULT “TRUE”** |
| **USERID** | **VARCHAR(50)** | **CURRENT USER** |

**Table: STUDENTCOURSE**

**Primary Key: STUDENTCOURSEINFOID**

**Description: This table contains all information about the Student on which subject/course he/she registered.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **STUDENTCOURSEINFOID** | **INTEGER(10)** | **PRIMARY KEY, AUTO\_INCREMENT** |
| STUDENTNO | VARCHAR(50) | FOREIGN KEY REFRENCES STUDENTNO FROM STUDENT TABLE |
| COURSEID | INTEGER(10) | FOREIGN KEY REFRENCES COURSEID FROM COURSE TABLE |
| STARTDATE | DATE | CURRENT DATE |
| ENDDATE | DATE | CURRENT DATE |
| GROUPID | INTEGER(10) | FOREIGN KEY REFRENCES GROUPID FROM GROUP TABLE |
| **MODIFIEDDATE** | **DATE** | **DEFAULT “TODAY DATE”** |
| **ISDELETED** | **Boolean** | **DEFAULT “TRUE”** |
| **USERID** | **VARCHAR(50)** | **CURRENT USER** |

**Table: STUDENTASSIGNMENT**

**Primary Key: STUDENTGRADEINFOID**

**Description: This table contains all Assignment details of the student.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **STUDENTGRADEINFOID** | **INTEGER(10)** | **PRIMARY KEY, AUTO\_INCREMENT** |
| STUDENTNO | VARCHAR(50) | FOREIGN KEY REFRENCES STUDENTNO FROM STUDENT TABLE |
| ASSIGNMENT1TOPIC | VARCHAR (50) |  |
| ASSIGNMENT1PERCENTAGE | INTEGER(10) |  |
| ASSIGNMENT2TOPIC | VARCHAR (50) |  |
| ASSIGNMENT2PERCENTAGE | INTEGER(10) |  |
| ASSIGNMENT3TOPIC | VARCHAR (50) |  |
| ASSIGNMENT3PERCENTAGE | INTEGER(10) |  |
| LABEXERCISE | INTEGER(10) |  |
| FINALEXAM | INTEGER(10) |  |
| PERCENTAGEPERASSIGNEMENT | INTGEGER(10) | NOT NULL |
| MARK | FLOAT(10,2) | DEFAULT 0.0 |
| COURSEID | INTEGER(10) | FOREIGN KEY REFRENCES COURSEID FROM COURSE |
| DATE | DATE |  |
| COMMENTS | VARCHAR (50) |  |
| MODIFIEDDATE | DATE | DEFAULT TODAY DATE |
| SUBJECTID | INTEGER(10) | FOREIGN KEY REFRENCES  SUBJECTID FROM SUBJECT |
| **MODIFIEDDATE** | **DATE** | **DEFAULT “TODAY DATE”** |
| **ISDELETED** | **Boolean** | **DEFAULT “TRUE”** |
| **USERID** | **VARCHAR(50)** | **CURRENT USER** |

**Table: FACULTY**

**Primary Key: FACULTYID**

**Description: This table contains all basic information about the Faculty.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **FACULTYID** | **INTEGER(10)** | **PRIMARY KEY, AUTO\_INCREMENT** |
| FACULTYNO | VARCHAR(50) | PRIMARY KEY |
| FIRSTNAME | VARCHAR(50) | NOT NULL |
| LASTNAME | VARCHAR(50) | NOT NULL |
| GENDER | VARCHAR(50) | NOT NULL |
| PERMANENTADDRESS | VARCHAR(50) | NOT NULL |
| TEMPORARYADDRESS | VARCHAR(50) | NOT NULL |
| COUNTRY | VARCHAR(50) | NOT NULL |
| PHONENO | INTEGER(50) | NOT NULL |
| EMAILID | VARCHAR (50) | NOT NULL |
| DATEOFBIRTH | DATE |  |
| DATEOFJOINING | DATE |  |
| EMERGENCYCONTACTNAME | VARCHAR (50) | NULL |
| EMERGENCYCONTACTNUMBER | INTEGER(50) | NULL |
| **MODIFIEDDATE** | **DATE** | **DEFAULT “TODAY DATE”** |
| **ISDELETED** | **Boolean** | **DEFAULT “TRUE”** |
| **USERID** | **VARCHAR(50)** | **CURRENT USER** |

**Table: STUDENTATTENDANCE**

**Primary Key: ATTENDANCEID**

**Description: This table contains Student attendance.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **ATTENDANCEID** | **INTEGER(10)** | **PRIMARY KEY, AUTO\_INCREMENT** |
| DATE | DATE |  |
| PRESENT | Boolean | DEFAULT “NO” |
| NOOFHOURS | INTEGER(10) | DEFAULT ‘5’ |
| STUDENTNO | VARCHAR(50) | FOREIGN KEY REFRENCES STUDENTNO FROM STUDENT TABLE |
| GROUPID | INTEGER(10) | FOREIGN KEY REFRENCES GROUPID FROM GROUP TABLE |
| **MODIFIEDDATE** | **DATE** | **DEFAULT “TODAY DATE”** |
| **ISDELETED** | **Boolean** | **DEFAULT “TRUE”** |
| **USERID** | **VARCHAR(50)** | **CURRENT USER** |

**Table: LOGIN**

**Primary Key: USERID**

**Description: This table contains user login details.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **USERID** | **INTEGER(10)** | **PRIMARY KEY** |
| USERNAME | VARCHAR(50) |  |
| PASSWORD | VARCHAR(50) |  |
| **MODIFEIDDATE** | **DATE** | **CURRENT DATE** |

**Table: ROLES**

**Primary Key: ROLEID**

**Description: This table role information of the Lambton Database.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **ROLEID** | **VARCHAR(50)** | **PRIMARY KEY** |
| ROLENAME | VARCHAR(50) |  |
| **USERID** | **INTEGER(10)** | **CURRENT USER ID** |
| **MODIFEIDDATE** | **DATE** | **CURRENT DATE** |

**Table: AUDIT(Optional Table)**

**Primary Key: AUDITID**

**Description: This table contains audit log details.**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **CONSTRAINTS** |
| **AUDITID** | **INTERGER** | **PRIMARY KEY, AUTO INCREMENT** |
| OPERATIONNAME | VARCHAR(50) |  |
| **USERID** | **INTEGER(10)** | **CURRENT USER ID** |
| **MODIFEIDDATE** | **DATE** | **CURRENT DATE** |