DATABASE DESIGN

**Designation** (used to store all the different designations)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| did | INTEGER | PRIMARY KEY | Designation id |
| dcd | TEXT | NOT NULL | Designation code |
| ddesc | TEXT | NOT NULL | Designation description |
| dmin | INTEGER | NOT NULL | Minimum experience from |
| dmax | INTEGER | NOT NULL | Minimum experience to |
| drole | TEXT | NOT NULL | Login role type |

**Project\_roles** (stores all the different roles)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| rid | INTEGER | PRIMARY KEY | Role id |
| rcd | TEXT | NOT NULL | Role code |
| rdesc | TEXT | NOT NULL | Role description |
| ractive | CHAR | NOT NULL | Role status |
| rupdt | DATETIME |  | Role updated datetime |

**Project** (stores project details)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| pid | INTEGER | PRIMARY KEY | Project id |
| ptitle | TEXT | NOT NULL | Project title |
| pdesc | TEXT | NOT NULL | Project description |
| psdate | DATE | NOT NULL | Start date |
| pexpedate | DATE |  | Expected end date |
| pedate | DATE |  | End date |
| pcrtd | TEXT | NOT NULL | Created by |
| pclient | TEXT | NOT NULL | Client name |
| pstatus | CHAR | NOT NULL | Project status |
| powner | INTEGER | FOREIGN KEY | References eid from employee |
| pcloc | TEXT | NOT NULL | Client location |
| pcomplexity | TEXT | NOT NULL | Complexity |
| ptype | TEXT | NOT NULL | Project type |
| pbudget | FLOAT | NOT NULL | Budget |

**Project\_members** (used to store project member details)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| pmid | INTEGER | PRIMARY KEY | Id for table |
| pid | INTEGER | FOREIGN KEY | References pid from Project |
| eid | INTEGER | FOREIGN KEY | References eid from Employee |
| rid | INTEGER | FOREIGN KEY | References rid from Project\_roles |
| pmsdate | DATE | NOT NULL | Start date |
| pmedate | DATE |  | End date |
| pmstatus | CHAR | NOT NULL | Project member status |

**Employee** (used to store employee details)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| eid | INTEGER | PRIMARY KEY | Employee Id |
| efname | TEXT | NOT NULL | First name |
| elname | TEXT | NOT NULL | Last name |
| esname | TEXT | NOT NULL | Guardian Name |
| edob | DATE | NOT NULL | Date of birth |
| ebgroup | TEXT | NOT NULL | Blood group |
| emstatus | CHAR | NOT NULL | Marital status |
| enationality | TEXT | NOT NULL | Natioanlity |
| edisb | CHAR | NOT NULL | Disabled |
| egender | CHAR | NOT NULL | Gender |
| epaddr\_line1 | TEXT | NOT NULL | Permenant Address line 1 |
| epaddr\_line2 | TEXT | NOT NULL | Permenant Address line 2 |
| epaddr\_line3 | TEXT |  | Permenant Address line 3 |
| ecaddr\_line1 | TEXT | NOT NULL | Current Address line 1 |
| ecaddr\_line2 | TEXT | NOT NULL | Current Address line 2 |
| ecaddr\_line3 | TEXT |  | Current Address line 3 |
| emobile | INTEGER | NOT NULL | Mobile no |
| eemail | TEXT | NOT NULL | Email |
| edoj | DATE | NOT NULL | Date of joining |
| eqfn | TEXT | NOT NULL | Qualification |
| eprev\_exp | FLOAT |  | Previous experience |
| eprev\_cmp | TEXT |  | Previouc company |
| ecl | FLOAT | NOT NULL | Casual leaves |
| esl | FLOAT | NOT NULL | Sick leaves |
| eel | FLOAT | NOT NULL | Earned leaves |
| efl | FLOAT | NOT NULL | Flexi leaves |
| estatus | CHAR | NOT NULL | Status |
| epwd | TEXT | NOT NULL | Password |
| eimg | IMAGEFIELD | NOT NULL | Employee image |

**Employee\_desig** (used to store employee designation)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| edid | INTEGER | PRIMARY KEY | Id for employee\_desig |
| edeid | INTEGER | FOREIGN KEY | References eid from Employee |
| eddid | INTEGER | FOREIGN KEY | References did from Designation |
| edsdate | DATE | NOT NULL | Start date |
| ededate | DATE |  | End date |
| edstatus | CHAR | NOT NULL | Status |

**Employee\_sal** (used to store employee annual salary)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| esid | INTEGER | PRIMARY KEY | Id for Employee\_sal |
| eseid | INTEGER | FOREIGN KEY | References eid from Employee |
| esctc | INTEGER | NOT NULL | Annual salary |
| essdate | DATE | NOT NULL | Start date |
| esedate | DATE |  | End date |
| esstatus | CHAR | NOT NULL | Status |

**Timesheet** (used to store employee timesheet)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| tid | INTEGER | PRIMARY KEY | Id for Timesheet |
| teid | INTEGER | FOREIGN KEY | References eid from Employee |
| tdate | DATE | NOT NULL | Date |
| thours | FLOAT | NOT NULL | Hours worked |
| tstate | CHAR | NOT NULL | State of the day |

**Leave** (used to store employee leave)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| lid | INTEGER | PRIMARY KEY | Leave Id |
| eid | INTEGER | FOREIGN KEY | References eid from Employee |
| sdate | DATE | NOT NULL | Start date |
| edate | DATE | NOT NULL | End date |
| nof | INTEGER | NOT NULL | Number of days |
| ltype | INTEGER | NOT NULL | Leave type |
| status | CHAR | NOT NULL | Status |
| desc | TEXT | NOT NULL | Reason |
| reqdate | DATE | NOT NULL | Requested date |
| remarks | TEXT |  | Remarks |
| queueid | INTEGER | NOT NULL | Queue id |
| updt\_by | INTEGER |  | Updated by |

**Wage** (used to store employee salary details)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| wid | INTEGER | PRIMARY KEY | Wage Id |
| eid | INTEGER | FOREIGN KEY | References eid of Employee |
| sdate | DATE | NOT NULL | Start date |
| edate | DATE | NOT NULL | End date |
| ctc | FLOAT | NOT NULL | Annual salary |
| ctc\_pm | FLOAT | NOT NULL | Monthly salary |
| bs | FLOAT | NOT NULL | Basic salary |
| conv | CHAR | NOT NULL | Conveyance |
| hra | FLOAT | NOT NULL | House Rent Allowance |
| city | FLOAT | NOT NULL | City Allowance |
| sundry | FLOAT | NOT NULL | Sundry Medicals |
| ptax | FLOAT | NOT NULL | Professional Tax |
| pf | FLOAT | NOT NULL | Provident Fund |
| esis | FLOAT | NOT NULL | Employment State Insurance Scheme |
| lop | FLOAT | NOT NULL | Loss of Pay |
| status | CHAR | NOT NULL | Wage status |

**News** (used to store news details)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| nid | INTEGER | PRIMARY KEY | Id for News |
| head | TEXT | NOT NULL | Heading |
| desc | TEXT | NOT NULL | Description |
| img | IMAGEFIELD | NOT NULL | Image |