DATABASE DESIGN

**Designation** (used to store employee designation)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| desig\_id | INTEGER | PRIMARY KEY | Designation id |
| desig\_cd | TEXT | NOT NULL | Designation code |
| desc | TEXT | NOT NULL | Designation description |
| minexp\_from | INTEGER | NOT NULL | Minimum experience from |
| minexp\_to | INTEGER | NOT NULL | Minimum experience to |
| loginrole\_type | TEXT | NOT NULL | Login role type |

**Project\_roles** (roles used in projects)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| rid | INTEGER | PRIMARY KEY | Role id |
| role | TEXT | NOT NULL | Role |
| desc | TEXT | NOT NULL | Role desc |

**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 | Project start date |
| pedate | DATE |  | Project end date |
| status | CHAR | NOT NULL | Project status |
| owner | INTEGER | FOREIGN KEY | References eid from employee |

**Project\_members** (used to store members of the project)

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| id | 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 |
| sdate | DATE | NOT NULL | Project member start date |
| edate | DATE |  | Project member end date |
| status | CHAR | NOT NULL | Project member status |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| eid | INTEGER | PRIMARY KEY | Employee Id |
| fname | TEXT | NOT NULL | First name |
| mname | TEXT |  | Middle name |
| lname | TEXT | NOT NULL | Last name |
| dob | DATE | NOT NULL | Date of birth |
| bgroup | TEXT | NOT NULL | Blood group |
| gender | CHAR | NOT NULL | Gender |
| m\_status | CHAR | NOT NULL | Marital status |
| addr\_line1 | TEXT | NOT NULL | Address line 1 |
| addr\_line2 | TEXT |  | Address line 2 |
| addr\_line3 | TEXT |  | Address line 3 |
| nationality | TEXT | NOT NULL | Nationality |
| mobile | INTEGER | NOT NULL | Mobile no |
| email | TEXT | NOT NULL | Email |
| doj | DATE | NOT NULL | Date of joining |
| qualific | TEXT | NOT NULL | Qualification |
| cl | INTEGER |  | Casual leaves |
| sl | INTEGER |  | Sick leaves |
| el | INTEGER |  | Earned leaves |
| fl | INTEGER |  | Flexi leaves |
| prev\_exp | INTEGER | NOT NULL | Previous experience |
| exp | INTEGER | NOT NULL | Experience |
| status | CHAR | NOT NULL | Status |
| pwd | TEXT | NOT NULL | Password |
| loginrole\_type | TEXT | NOT NULL | Login role type |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| id | INTEGER | PRIMARY KEY | Id for employee\_desig |
| eid | INTEGER | FOREIGN KEY | References eid from Employee |
| did | INTEGER | FOREIGN KEY | References did from Designation |
| sdate | DATE | NOT NULL | Start date |
| edate | DATE |  | End date |
| status | CHAR | NOT NULL | Status |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| id | INTEGER | PRIMARY KEY | Id for Employee\_sal |
| eid | INTEGER | FOREIGN KEY | References eid from Employee |
| ctc | INTEGER | NOT NULL | Annual salary |
| sdate | DATE | NOT NULL | Start date |
| edate | DATE |  | End date |
| status | CHAR | NOT NULL | Status |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraint** | **Description** |
| tid | INTEGER | PRIMARY KEY | Id for Timesheet |
| eid | INTEGER | FOREIGN KEY | References eid from Employee |
| date | DATE | NOT NULL | Day |
| hours | FLOAT | NOT NULL | Hours worked |
| state | 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 |
| days | INTEGER | NOT NULL | Number of days |
| status | CHAR | NOT NULL | Status |
| reason | TEXT |  | 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 |