# DATABASE STRUCTURE:

A database structure is the arrangement of data in a database. It defines how the data is organized, stored, and accessed. The structure of a database includes tables, fields, relationships, and constraint.

In a relational database, the structure is based on tables that are connected through relationships. Each table contains fields, which are columns that hold specific data types, such as text, numbers, or dates. The relationships between tables are defined by primary keys and foreign keys.

A primary key is a unique identifier for a record in a table, while a foreign key is a reference to a primary key in another table. By establishing these relationships, data can be organized and accessed efficiently.

In addition to tables and relationships, the database structure includes constraint, which are rules that govern the data that can be entered into the database. Examples of constraint include unique constraint, which ensure that a specific field contains unique values, and check constraint, which verify that the data entered meets specific criteria.

Overall, the database structure is critical to the proper functioning of a database system and can significantly impact the performance and usability of the database.

HRMS Database tables are grouped according to their relationships

1. Login and security
2. Employee – entity
3. Job and job position
4. Benefits
5. Leave management

Tables and table columns

# Login and security.

* 1. tbl\_user

A user table is typically used to store information related to system users, such as employees, managers, and administrators.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_user** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data Type** | **Other Details** |
| PK | user\_id |  | INT AUTO | NOT NULL |
| PK | user\_name |  | VARCHAR(255) | NOT NULL |
|  | first\_name |  | VARCHAR(255) | NOT NULL |
|  | last\_name |  | VARCHAR(255) | NOT NULL |
| UNIQUE | email\_address |  | VARCHAR(255) | NOT NULL |
|  | password |  | VACHAR (255) | NOT NULL |
|  | role\_id | Roles Table | INT | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## b.tbl\_roles

A roles table is typically used to define different access levels that users can have within the system.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_roles** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | role\_id |  | INT | NOT NULL |
|  | role\_name |  | VARCHAR(255) | NOT NULL |
|  | role\_default |  | BOOLEAN | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## c.tbl\_roles\_to\_users

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table**  **Name** | **tbl\_roles\_to\_users** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | tbl\_roles\_to\_users  \_id |  | INT | NOT NULL |
| FK UNIQUE | user\_id | tbl\_user | INT | CASCADE ON UPDATE |
| FK UNIQUE | role\_id | tbl\_roles | INT | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

**d.tbl\_rights**

A rights table is used to define the specific permissions associated with different roles within the system.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_rights** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | rights\_id |  | INT | NOT NULL |
|  | rights\_name |  | VARCHAR(255) | NOT NULL |
|  | rights\_description |  | LONGTEXT | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## e. tbl\_rights \_to\_roles

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_rights \_to\_roles** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | rights \_to\_roles\_id |  | INT | NOT NULL |
| FK | roles\_id | tbl\_roles | INT | NOT NULL |
| FK | rights\_id | tbl\_rights | INT | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

**tbl\_user\_login**

An access details table is used to track and record user access information, such as login attempts, session details, and system usage.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_access\_details** | | |  |
| **constraint** | **Column Name** | **Related table** | **Data Type** | **Other details** |
| PK | user\_login\_id |  | INT | NOT NULL |
| FK | users\_id | Users table | INT | NOT NULL |
|  | login\_date\_time |  | DATE | NOT NULL |
|  | last\_login |  | DATE | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |
|  | logout |  | DATETIME |  |

# Employee-entity.

## tbl\_employee.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_employee.** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | employee\_id |  | VAQRCHAR(255) | NOT NULL |
|  | first\_name |  | VARCHAR(255) | NOT NULL |
|  | last\_name |  | VARCHAR(255) | NOT NULL |
|  | middle\_name |  | VARCHAR(255) | NULL |
|  | gender |  | VARCHAR(255) | NOT NULL |
|  | DOB |  | DATE | NOT NULL |
|  | telephone1 |  | VARCHAR(255) | NOT NULL |
|  | telephone2 |  | VARCHAR(255) | NULL |
|  | email\_address1 |  | VARCHAR(255) | NOT NULL |
|  | email\_address2 |  | VARCHAR(255) | NULL |
|  | address | Address table | VARCHAR(255) | UPDATE CASCADE |
|  | marital\_status |  | VARCHAR(255) | UPDATE CASCADE |
|  | employment\_status |  | VARCHAR(255) | NOT NULL |
|  | employment\_type |  | VARCHAR(255) | NOT NULL |
| fk | department\_id | Department table | VARCHAR(255) | UPDATE CASCADE |
|  | next\_of\_kin\_id | Next of Kin | VARCHAR(255) | UPDATE CASCADE |
|  | Created\_at |  | DATETIME | CURRENT TIME STAMP |

An employee table is used to store information about individual employees within an

## tbl\_next\_ of\_ Kin

A next of kin table is used to store information about the emergency contacts for each employee.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_next\_ of\_ Kin** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | next\_of\_kin\_id |  | INT AUTO | NOT NULL |
|  | next\_of\_kin\_first\_name |  | VARCHAR (255) | NOT NULL |
|  | next\_of\_kin\_last\_name |  | VARCHAR (255) | NOT NULL |
|  | next\_of\_kin\_middle\_name |  | VARCHAR (255) |  |
| FK | employee\_id | Employee table | INT | CASCADE |
|  | address |  | VARCHAR(255) | NOT NULL |
|  | telephone |  | VARCHAR(255) | NOT NULL |
|  | relationship |  | VARCHAR(255) | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## tbl\_employment\_status

This table represents the current state of an individual's employment within the company

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_employment\_status** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | tbl\_employment\_status\_id |  | INT | NOT NULL |
| FK | employee\_id | Employee table | INT | CASCADE ON UPDATE  NOT NULL |
|  | employment\_status |  | VARCHAR (255) | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

1. **tbl\_employment\_type**

Employment type" is a classification that categorizes the nature of an individual's job or work arrangement.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_employment\_type** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | tbl\_employment\_type\_id |  | INT | NOT NULL |
| FK | employee\_id | Employee table | INT | CASCADE ON UPDATE |
|  | employment\_type |  | VARCHAR (255) | NOT NULL |
|  | Created\_at |  | DATETIME | CURRENT TIME STAMP |

1. **tbl\_employment\_history**

This table allows you to keep track of the work history of employees within your organization.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_employment\_type** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | employment\_id |  | INT | NOT NULL |
| FK | employee\_id | Employee table | INT | CASCADE ON UPDATE |
|  | company\_name |  | VARCHAR (255) | NOT NULL |
|  | end\_date |  | DATE | NOT NULL |
|  | start\_date |  | DATE | NOT NULL |
|  | job\_positions |  | VARCHAR (255) | NOT NULL |

## tbl\_departments

A departments table is used to store information about the different departments or divisions within an organization.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **Departments** | |  |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | department\_id | manager table | INT AUTO\_INCREMENT | NOT NULL |
| FK | manager\_id | Employee table |  | ON UPDATE CASCADE |
|  | department\_name |  | VARCHAR(255) | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## 2.1 tbl\_employee\_other\_details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_employee\_ other\_ details** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | employee\_other\_details\_id |  | INT AUTO\_INCREMENT | NOT NULL |
| FK | employee\_id | Employee table | INT | NOT NULL |
|  | nationality | Nationality table | VARCHAR(255) | NOT NULL |
|  | language | Language table | VARCHAR(255) | NOT NULL |
|  | Salary\_scale |  | VARCHAR | NOT NULL |
|  | salary |  | INT | NOT NULL |
|  | disability\_status |  | BOOLEAN |  |
|  | employee\_title |  | VARCHAR(255) |  |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

An employee other details table is used to store additional information about employees that may not be captured in the main employee table.

**ii. tbl\_employee\_performance**

This table helps you to track the performance of an employee for evaluation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_employee\_performance** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | performance\_id |  | INT | NOT NULL |
| FK | employee\_id | Employee table | INT | CASCADE ON UPDATE |
|  | goals |  | VARCHAR (255) | NOT NULL |
|  | achievements |  | VARCHAR (255) |  |
|  | areas\_for\_improvement |  | VARCHAR (255) |  |
|  | evaluation\_date |  | DATE | NOT NULL |

**iii.tbl\_performance\_review**

This table will help an employer assesses an employee's job performance and provides feedback on their strengths, weaknesses, and areas for improvement.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_performance\_review** | | |  |
| **constraint** | **Column Name** | **Related tables** | **Data type** | **Other details** |
| PK | review\_id |  | INT | NOT NULL |
| FK | employee\_id | Employee table | INT | CASCADE ON UPDATE |
|  | performance\_rating |  | VARCHAR (255) | NOT NULL |
|  | comments |  | TEXT |  |
|  | review\_date |  | DATE | NOT NULL |

**iv. tbl\_documents**

**T**his table stores all the documents held by employees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_documents** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | **employee\_documents\_id** |  | INT AUTO\_INCREMENT | NOT NULL |
| FK | employee\_id | Employee table | INT | NOT NULL  ON UPDATE CASCADE |
|  | **document\_type** |  | VARCHAR(255) | NOT NULL |
|  | **document\_name** |  | VARCHAR(255) | NOT NULL |
|  | **document\_file** |  | BLOB | NOT NULL |
|  | **document\_content** |  | LONGTEXT | NOT NULL |
|  | **upload\_date** |  | DATETIME | CURRENT TIME STAMP |

**v. tbl\_Language**

A table is used to store information about different languages known by employees.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_Language** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | language\_id |  | INT AUTO\_INCREMENT | NOT NULL |
|  | language\_name |  | VARCHAR(255) | NOT NULL |
|  | Created\_at |  | DATETIME | CURRENT TIME STAMP |

## vi. tbl\_nationality

A nationality table in a database is a table that stores information about different nationalities or citizenships of individuals.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | tbl\_nationality | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | nationality\_id |  | INT AUTO\_INCREMENT | NOT NULL |
|  | nationality\_name |  | VARCHAR(255) | NOT NULL |
|  | Created\_at |  | DATETIME | CURRENT TIME STAMP |

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**vii.tbl\_training\_programs**

A training programs table in a database is used to store information about various training programs offered by an organization

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | tbl\_training\_programs | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | training\_program\_id |  | INT AUTO\_INCREMENT | NOT NULL |
|  | description |  | VARCHAR(255) | NOT NULL |
|  | start\_date |  | DATE | NOT NULL |
|  | end\_date |  | DATE | NOT NULL |
|  | trainer\_details |  | varchar(500) | NOT NULL |
|  | associated\_costs |  | DECIMAL(10,3) | NOT NULL DEFAULT 0.000 |

viii. **tbl\_employee\_training**

Employee training is a planned and organized process of providing learning opportunities and skill development to employees within an organization.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | tbl\_employee\_training | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | employee\_training\_id |  | INT AUTO\_INCREMENT | NOT NULL |
| FK | employee\_id | Employee table | INT | NOT NULL  ON UPDATE CASCADE |
| FK | training\_program\_id | Training program | INT | NOT NULL  ON UPDATE CASCADE |
|  | certification\_obtained |  | BLOB | NOT NULL |
|  | completion\_date |  | DATETIME | CURRENT TIME STAMP |

**ix. tbl\_employee\_rewards**

An employee rewards table can be used to store information about the various rewards and recognition given to employees within the organization.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | tbl\_employee\_rewards | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | employee\_reward\_id |  | INT AUTO\_INCREMENT | NOT NULL |
| FK | employee\_id | Employee table | INT | NOT NULL |
|  | reward\_reason |  | TEXT | NOT NULL |
|  | bonus |  | DECIMAL(10, 2) |  |
|  | reward\_date |  | DATE | NOT NULL |
|  | reward\_type |  | VARCHAR(255) | NOT NULL |

x. **tbl\_employee\_feedback**

This table helps to store, manage, and analyze feedback provided by employees.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_employee\_feedback** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | employee\_reward\_id |  | INT AUTO\_INCREMENT | NOT NULL |
| FK | employee\_id | Employee table | INT | NOT NULL |
|  | feedback\_type |  | VARCHAR(255) | NOT NULL |
|  | feedback\_text |  | VARCHAR(500) |  |
|  | feedback\_date |  | DATE | NOT NULL |

**Xii.tbl\_deductions**

This table stores information about different types of deductions and their respective details.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_deductions** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | deduction\_id |  | INT AUTO\_INCREMENT | NOT NULL |
| FK | employee\_id | Employee table | INT | NOT NULL  ON UPDATE CASCADE |
|  | deduction\_type |  | VARCHAR(255) | NOT NULL |
|  | deduction\_date |  | DATE | NOT NULL |
|  | deduction\_amount |  | DECIMAL(10,2) | NOT NULL |
|  | deduction\_frequency |  | VARCHAR(255) | NOT NULL |

xiii. **tbl\_allowance**

A table used to store information related to various allowances provided to employees as part of their compensation package

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_**allowance | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | allowance\_id |  | INT AUTO\_INCREMENT | NOT NULL |
| FK | employee\_id | Employee table | INT | NOT NULL  ON UPDATE CASCADE |
|  | allowance\_name |  | VARCHAR(255) | NOT NULL |
|  | allowance\_date |  | DATE | NOT NULL |
|  | allowance\_amount |  | DECIMAL(10,2) | NOT NULL |

**xiv. tbl\_payroll**

A table used to store information related to employee payroll data.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_payroll** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | payroll\_id |  | INT AUTO\_INCREMENT | NOT NULL |
| FK | employee\_id | Employee table | INT | NOT NULL  ON UPDATE CASCADE |
| FK | deduction\_id | Deduction table | INT | NOT NULL  ON UPDATE CASCADE |
| FK | allowance\_id | Allowance table | INT | NOT NULL  ON UPDATE CASCADE |
|  | basic\_salary |  | DECIMAL(10,2) | NOT NULL |
|  | net\_pay |  | DECIMAL(10,2) | NOT NULL |
|  | total\_allowance |  | DECIMAL(10,2) |  |
|  | total\_deduction |  | DECIMAL(10,2) |  |
|  | payroll\_date |  | DATE | NOT NULL |

Job and Job position

* 1. **tbl\_Jobs**

Jobs table is used to store information about jobs within an organization.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_Jobs** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | job\_id |  | INT | NOT NULL |
|  | job\_type |  | VARCHAR(255) | NOT NULL |
|  | maximum\_number\_of\_positions |  | INT | NOT NULL |
|  | valid\_from\_date |  | DATE | NOT NULL |
|  | valid\_to\_date |  | DATE | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## b.tbl\_designation

A job position table is used to store information about specific job positions within an organization.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_designation** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | designation\_id |  | INT | NOT NULL |
|  | designation\_name |  | VARCHAR(255) | NOT NULL |
|  | valid\_from\_date |  | DATE | NOT NULL |
|  | valid\_to\_date |  | DATE | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## c.tbl\_qualification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_qualification** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | qualification\_id |  | INT | NOT NULL |
|  | qualification\_name |  | VARCHAR(255) | NOT NULL |
|  | qualification\_type |  | VARCHAR(255) | NOT NULL |
|  | awarding\_institution |  | VARCHAR(255) | NOT NULL |
|  | year\_awarded |  | YEAR | NOT NULL |
| FK | employee\_id | Employee details | INT | CASCADE ON UPDATE |
|  | skills\_and\_competencies |  | VARCHAR(255) | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

A qualification table is used to store information about the qualifications or educational background of employees.

**d.tbl\_skills\_and\_competencies**

A table storing skills and competencies of an employee.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_designation** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | skills\_and\_competencies\_id |  | INT | NOT NULL |
| FK | qualification\_id | tbl\_qualification | VARCHAR(255) | NOT NULL |
|  | Skill\_name |  | LONGTEXT | NOT NULL |
|  | competency |  | LONGTEXT | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## Benefits

1. **tbl\_benefit\_plan**

A benefit plan table is used to store information about the different benefit plans offered to employees within an organization.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_benefit\_plan** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Role** |
| PK | benefit\_id |  | INT | NOT NULL |
| FK | employee\_id |  |  | CASCADE ON UPDATE |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## tbl\_benefit\_options

A benefit options table is used to store information about the specific options available within a benefit plan. When referring to "benefit options" of an employee, it typically means the choices or selections available to an employee within their benefit plan.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_benefit\_options** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | benefit\_options\_id |  | INT | NOT NULL |
| FK | employee\_id | Employee table | INT | CASCADE |
|  | description |  | VARCHAR(255) | NOT NULL |
| FK | Benefit\_id | Benefit Plan | INT | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

1. **tbl\_insurance**

A table used to store information related to insurance policies and their associated details.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **tbl\_insurance** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | insurance\_id |  | INT AUTO\_INCREMENT | NOT NULL |
| FK | employee\_id | Employee table | INT | NOT NULL  ON UPDATE CASCADE |
| FK | benefit\_id | Benefits table | INT | NOT NULL  ON UPDATE CASCADE |
|  | insurance\_provider |  | VARCHAR(255) | NOT NULL |
|  | insurance\_type |  | VARCHAR(255) | NOT NULL |
|  | policy\_start\_date |  | DATE | NOT NULL |
|  | policy\_end\_date |  | DATE | NOT NULL |
|  | insurance\_status |  | VARCHAR(255) | NOT NULL |
|  | deductable |  | DECIMAL(10,2) | NOT NULL |
|  | premium\_amount |  | DECIMAL(10,2) | NOT NULL |
|  | duration |  | VARCHAR(255) | NOT NULL |
|  | renewal\_date |  | DATE | NOT NULL |

## Leave management

1. **Tbl\_leave\_type.**

A leave type table is used to store information about different types of leaves or time- off options available to employees.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **i. Tbl\_leave\_type.** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | leave\_type\_id |  | INT AUTO INCREMENT | NOT NULL |
|  | leave\_type\_name |  | VARCHAR | NOT NULL |
|  | description |  | VARCHAR | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## tbl\_leave \_request

A leave request table is used to store information about employees' leave requests.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **i. tbl\_leave \_request** | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | leave\_request\_id |  | INT AUTO INCREMENT | NOT NULL |
| FK | leave\_type\_id | Leave type table | INT | NOT NULL |
| FK | employee\_ id | Employees  table | INT | CASCADE |
|  | leave\_request\_status |  | VARCHAR(255) | NOT NULL |
|  | leave\_request\_date |  | DATE | NOT NULL |
|  | leave\_request\_detail s |  | LONG TEXT | NOT NULL |
|  | created\_at |  | DATETIME | CURRENT TIME STAMP |

## tbl\_leave

table used to store information related to employee leaves.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | tbl\_leave | | |  |
| **constraint** | **Column Name** | **Related tables** | **DATA TYPE** | **Other details** |
| PK | leave\_id |  | INT AUTO INCREMENT | NOT NULL |
| FK | leave\_type\_id | Leave type table | INT | NOT NULL |
|  | leave\_balance |  | INT | NOT NULL |
|  | leave\_name |  | VARCHAR(255) | NOT NULL |
|  | leave\_start\_date |  | DATE | NOT NULL |
|  | leave\_end\_date |  | DATE | NOT NULL |