DBMS Project

HR DATABASE MANAGEMENT SYSTEM

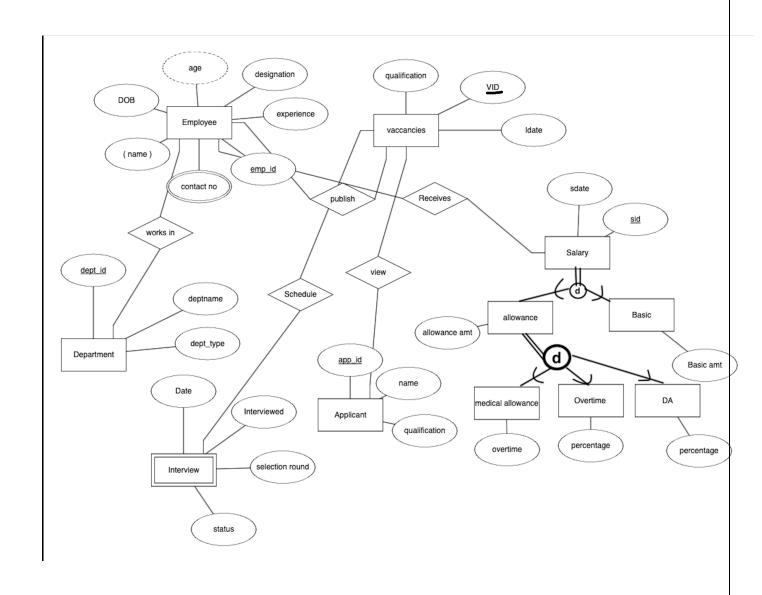
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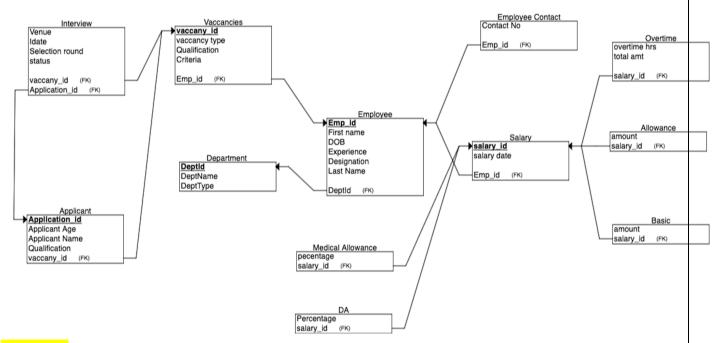
About/Description

HR Database Management System (HRDMS) was created to include the best practices for service human resources departments within the company and is the work of all employee's department. The target group of the system that serves the human resource procedures is special for the employees and managers. This system is also classified according to staff branches and departments as it is classified according to the work of multiple systems; In addition to that it is organized in terms of personnel.

Our database is based on Human Resource Management which leads and directs the routine functions of the Human Resources (HR) department including hiring and interviewing staff, administering pay, benefits, and leave, and enforcing company policies and practices. Our database contains Human Resource Inventory which comprehensively lists down the basic information on all the employees, like their education, experience, skills, age, gender, salary related data, job preference and special achievements.

Entity – Relationship Diagram





SCHEMA

1.Employee:

CREATE TABLE employee (

- -> empid VARCHAR(10) PRIMARY KEY,
- -> firstname VARCHAR(20),
- -> lastname VARCHAR(20),
- -> DOB DATE,
- -> experience DATE, -- Assuming experience is a date, you might want to change it to INTEGER if it's supposed to be years of experience
 - -> designation VARCHAR(15),
 - -> deptid VARCHAR(10),
 - -> FOREIGN KEY (deptid) REFERENCES department(deptid)
 - ->);

2.Vacancies

mysql> CREATE TABLE Vacancies (

- -> Vaccncyld VARCHAR(10) PRIMARY KEY,
- -> Vacancy type VARCHAR(15),
- -> Qualification VARCHAR(15),
- -> Criteria VARCHAR(25),
- -> Idate DATE,
- -> empid VARCHAR(10),
- -> FOREIGN KEY (empid) REFERENCES Employee(empid)
- ->);

3.Interview

```
mysgl> CREATE TABLE Interview (
 -> Venue VARCHAR(15),
 -> Idate DATE,
 -> Selection round NUMERIC,
 -> Status VARCHAR(10),
 -> vacancyid VARCHAR(10),
 -> application id VARCHAR(10),
 -> FOREIGN KEY (vacancyid) REFERENCES Vacancies(VaccncyId),
 -> FOREIGN KEY (application id) REFERENCES Applicant(Application Id)
 -> );
4.Applicant
mysql> CREATE TABLE Applicant (
 -> Application Id VARCHAR(10) PRIMARY KEY,
 -> Applicant age NUMERIC,
 -> Applicant Name VARCHAR(20),
 -> Qualification VARCHAR(15),
 -> vacancyid VARCHAR(10),
 -> FOREIGN KEY (vacancyid) REFERENCES Vacancies(Vaccncyld)
 -> );
5.Salary
mysql> CREATE TABLE Salary (
 -> SalaryId VARCHAR(10) PRIMARY KEY,
 -> Salary date DATE,
 -> empid VARCHAR(10),
 -> FOREIGN KEY (empid) REFERENCES Employee(EmpID)
 -> );
6.Employee Contact
mysql> CREATE TABLE EmployeeContact (
 -> Contact No NUMERIC,
 -> empid VARCHAR(10),
 -> FOREIGN KEY (empid) REFERENCES Employee(EmpID)
 -> );
```

7.Overtime

```
mysgl> CREATE TABLE Overtime (
 -> Overtime_hours NUMERIC,
 -> Total oamt NUMERIC,
 -> salaryid VARCHAR(10),
 -> FOREIGN KEY (salaryid) REFERENCES Salary(SalaryId)
 -> );
8. Allowance
mysql> CREATE TABLE Allowance (
 -> Amount NUMERIC,
 -> salaryid VARCHAR(10),
 -> FOREIGN KEY (salaryid) REFERENCES Salary(SalaryId)
 -> );
9. Medical Allowance
mysql> CREATE TABLE MedicalAllowance (
 -> Percentage NUMERIC,
 -> salaryid VARCHAR(10),
 -> FOREIGN KEY (salaryid) REFERENCES Salary(SalaryId)
 ->);
10.DA
mysql> CREATE TABLE DA (
 -> Percentage NUMERIC,
 -> salaryid VARCHAR(10),
 -> FOREIGN KEY (salaryid) REFERENCES Salary(SalaryId)
 -> );
11.Basic
mysql> CREATE TABLE Basic (
 -> Amount NUMERIC,
 -> salaryid VARCHAR(10),
 -> FOREIGN KEY (salaryid) REFERENCES Salary(SalaryId)
 -> );
```

12.Department

mysql> CREATE TABLE department (

- -> deptid VARCHAR(10) PRIMARY KEY,
- -> deptname VARCHAR(15),
- -> depttype VARCHAR(15)
- ->);

INSERTING DATA VALUES

Employee

```
mysql> select * from employee;
| empid | firstname | lastname | DOB | experience | designation | deptid |
     I E02
I E03
I E04
I E05
I E06
                                                    I NULL
I E07
                                                    I NULL
                                    NULL I NULL I NULL
     INULL
              I NULL
                      I NULL
I E08
                     | 1987-02-22 | 12 | Vice President | D1
| E101 | Ansh
            l Shah
8 rows in set (0.00 sec)
```

Employeecontact

Salary

Basic

Allowance

```
[mysql> select* from allowance;
+-----+
| Amount | salaryid |
+-----+
| 5000 | S01 |
| 2500 | S02 |
| 4000 | S03 |
| 2000 | S04 |
| 3000 | S05 |
+-----+
5 rows in set (0.00 sec) 1 to 26
```

Medicalallowance

Vacancies

Interview

Applicant

Department

Overtime

DA

QUERIES

1.Display name and designation of all employees having 'i' as the second letter in their names.

```
[mysql> select firstname , lastname from employee where firstname like'_i%';
+------+
| firstname | lastname |
+-----+
| Nishita | Solanki |
+-----+
1 row in set (0.01 sec)
```

2. Display applicant name and qualification whose age is between 21 to 26.

3. Display number of vaccancies according to qualification.

4. Display employee details who works in Production department.

```
mysql> SELECT e.empid, e.firstname, e.lastname, e.DOB, e.experience, e.designation, d.deptname s -> FROM employee e -> INNER JOIN department d ON e.deptid = d.deptid -> WHERE d.deptname = 'Production';

territory ter
```

5. Display name of employee getting medical allowance >75%.

ADVANCED CONCEPTS

TRIGGERS

```
mysql>
mysql> CREATE TRIGGER before_insert_basic_amount_check
    -> BEFORE INSERT ON basic
    -> FOR EACH ROW
    -> BEGIN
    -> IF NEW.amount > 1000 THEN

'4-> SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Basic amount cannot exceed 1000';
    -> END IF;
    -> END //
Query OK, 0 rows affected (0.02 sec)
```

```
[mysql> insert into basic values(9000,'S05');
ERROR 1644 (45000): Basic amount cannot exceed 1000
```

FUNCTIONS

```
mysql> CREATE FUNCTION get_employees_name(exp INT) RETURNS TEXT
    -> DETERMINISTIC
    -> BEGIN
           DECLARE name_text TEXT;
DECLARE empid_var VARCHAR(10);
           DECLARE firstname_var VARCHAR(20);
           DECLARE lastname_var VARCHAR(20);
DECLARE deptid_var VARCHAR(10);
    ->
    ->
           DECLARE experience_var INT;
DECLARE done INT DEFAULT FALSE;
           DECLARE cur_emp CURSOR FOR
               SELECT empid, firstname, lastname, deptid, experience FROM employee WHERE experience > exp;
           DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
           OPEN cur_emp;
           employee_loop: Loop
               FETCH cur_emp INTO empid_var, firstname_var, lastname_var, deptid_var, experience_var;
               IF done THEN
                   LEAVE employee_loop;
               END IF;
    ->
   see its outradeptid_vareed bit then it in a query. For example:
                  SET name_text := CONCAT(empid_var, ' ', firstname_var, ' ', lastname_var);
               END IF;
    ->
           END LOOP employee_loop;
    ->
           CLOSE cur_emp;
    ->
           RETURN name_text;
    -> END$$
Query OK, 0 rows affected (0.01 sec)
mysql>
mysql> DELIMITER ;
mysql> SELECT get_employees_name(5); all eler.
| get_employees_name(5) |
(UE101 Ansh Shah _ | Joyees_name with the parameter '5' and
1 row in set (0.01 sec) or rect, it should return the text you expect
```