MySQL - CREATE DATABASE AND TABLE

```
CREATE DATABASE sample_hr_data;

USE sample_hr_data

CREATE TABLE employees (
        employee_id INT (11) AUTO_INCREMENT PRIMARY KEY,
        first_name VARCHAR (20) NOT NULL,
        middle_name VARCHAR (20) DEFAULT NULL,
        last_name VARCHAR (25) NOT NULL,
        sex VARCHAR (6) NOT NULL,
        race VARCHAR (10),
        birthdate DATE,
        hire_date DATE,
        term_date DATE,
        marital_status VARCHAR (12) NOT NULL,
        race VARCHAR (10),
        spouse_ee_num INT DEFAULT NULL,
        dependents INT NOT NULL,
        phone_number VARCHAR (20) DEFAULT NULL,
        email VARCHAR (100) NOT NULL,
        street_name VARCHAR (50),
        street_name2 VARCHAR (20),
        city VARCHAR (30),
        state VARCHAR (25),
        county VARCHAR (30),
        postal_code VARCHAR (9),
        country_code VARCHAR (3),
        country VARCHAR (30),
        AUTO INCREMENT = 000001,
        ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci);
```

INSERT VALUES IN TO TABLE

```
INSERT INTO employees (first_name, middle_name, last_name, sex, birthdate, hire_date,)

VALUES
        ("Ely", "C", "Parnell", "Male", "1950-02-26", "1970-02-02"),
        ("Gregg", "E", "Hasloch", "Male", "1951-01-13", "1970-02-02")
```

ALTER TABLE employees

```
ALTER TABLE employees
ADD COLUMN region VARCHAR (4) NOT NULL;
ADD COLUMN disability CHAR(1);
```

UPDATE EMPLOYEE DATA

```
UPDATE employees
SET race = "White", marital_status = "Married", region = "AMER", disability = "N"
WHERE employee_id= 1;

UPDATE employees
SET race = "White", marital_status = "Married", region = "AMER", disability = "N"
WHERE employee_id= 2;

UPDATE employees
SET race = "White", marital_status = "Married", region = "AMER", disability = "N"
WHERE employee_id= 3;

UPDATE employees
SET race = "White", marital_status = "Married", region = "AMER", disability = "N"
WHERE employee_id= 4;
```

FETCH EMPLOYEE DATE FOR VIZ– calculate Employee Current Age, Employee Age when Hired and Years Worked

```
SELECT employee_id, first_name, last_name, sex,
birthdate, TIMESTAMPDIFF(YEAR, employees.birthdate, CURDATE()) AS current_age,
hire_date, FLOOR(DATEDIFF(hire_date, birthdate) /365) AS age_started, TIMESTAMPDIFF(YEAR, employees.hire_date,
CURDATE()) AS years_worked,
marital_status, race, region, disability
FROM employees
```

TABLEAU - create age groups

```
IF [Age Started]>=10 AND [Age Started]<=20 THEN '10-20'
ELSEIF [Age Started]>20 AND [Age Started]<=30 THEN '20-30'
ELSEIF [Age Started]>30 AND [Age Started]<=40 THEN '30-40'
ELSEIF [Age Started]>40 AND [Age Started]<=50 THEN '40-50'
ELSEIF [Age Started]>50 AND [Age Started]<=60 THEN '50-60'
ELSEIF [Age Started]>60 AND [Age Started]<=70 THEN '60-70'
ELSEIF [Age Started]>70 AND [Age Started]<=80 THEN '70-80'
END
```