LU08.A01 - Preparatory work

Requirements

- Work type: Individual
- Timeframe: 10 Minutes
- Means of aid:
 - $\,\circ\,$ Only teaching materials, no websearch, no use of ai.
- Expected result:
 - Conduct the database schema (instance) as foundation for our employee's data.
 - Establishment of a MySQL **table employees** including all relevant attributes.

Assignments

A: DATA SCHEMA

First of all we need a database schema (database workspace). Execute the following two lines on your MySQL installation.

CREATE DATABASE hr_database; SHOW DATABASES; USE hr database;

B: CREATE TABLE

To exercise the DML commands, we need a suitable table including a reasonable amout of data. The following SQL statement will create a table **employee** regarding all necessary attributes of an "average employee".

CREATE TABLE EMPLOYEES (employee_ID INT PRIMARY KEY, name VARCHAR(50) NOT NULL,	Employee ID as the primary key Name of the employee (max length 50
characters)	
<pre>surname VARCHAR(50) NOT NULL,</pre>	Surname of the employee (max length
50 characters)	
birthdate DATE NOT NULL,	Birthdate of the employee
<pre>sex CHAR(1),</pre>	Sex of the employee (M/F/O for
other)	
pronomen VARCHAR(10),	Pronoun of the employee
<pre>employment_date DATE NOT NULL,</pre>	Date when the employee was hired
salary DECIMAL(10, 2) NOT NULL,	Salary of the employee (up to 10
digits, 2 decimal places)	
department VARCHAR(50) NOT NULL	Department where the employee works
);	

Explanation

- 1. **employee_ID** is the primary key and ensures that each employee has a unique ID.
- 2. **name** and **surname** are 'VARCHAR' fields that store the name and surname of the employee.
- 3. **birthdate** and **employment_date** use the 'DATE' data type to store the birth and employment dates.
- 4. **sex** is stored as a 'CHAR(1)' type to represent gender with one letter ('M' for male, 'F' for female, etc.).
- 5. **pronomen** stores the employee's pronouns.
- 6. **salary** is stored as a 'DECIMAL' value to account for financial precision.
- department is a VARCHAR(50) field that stores the name of the department the employee is associated with. It has a NOT NULL constraint to ensure that every employee is assigned to a department.

Solution

Lösung

Vocabulary

English	German
preparatary work	Vorarbeit



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