```
DROP DATABASE IF EXISTS ProFlowDatabase:
CREATE DATABASE ProFlowDatabase;
USE ProFlowDatabase:
-- Create Profile table
CREATE TABLE IF NOT EXISTS 'Profile' (
 'id' INT NOT NULL AUTO_INCREMENT,
 'name' VARCHAR(100) NOT NULL,
 'lastName' VARCHAR(100) NOT NULL,
 `email` VARCHAR(255) NOT NULL,
 'password' VARCHAR(255) NOT NULL,
 'created date' DATETIME NOT NULL DEFAULT CURRENT TIMESTAMP,
 PRIMARY KEY ('id'),
 UNIQUE INDEX 'email' ('email' ASC)
);
-- Create Project table with added columns and modified schema
CREATE TABLE IF NOT EXISTS 'Project' (
 'id' INT NOT NULL AUTO INCREMENT,
 'name' VARCHAR(100) NOT NULL,
 'description' TEXT NOT NULL,
 'start date' DATE NOT NULL,
 'end date' DATE NOT NULL,
 `profile_id` INT NOT NULL,
 'budget' DOUBLE NOT NULL.
 'total est hours' INT NOT NULL,
 'actual price' DOUBLE NOT NULL,
 'created date' DATETIME NOT NULL DEFAULT CURRENT TIMESTAMP.
 'status' ENUM('ACTIVE', 'INACTIVE') NOT NULL DEFAULT 'ACTIVE',
 PRIMARY KEY ('id'),
 INDEX 'profile id' ('profile id' ASC),
 CONSTRAINT 'Project ibfk 1'
  FOREIGN KEY ('profile id')
  REFERENCES 'Profile' ('id'),
 CONSTRAINT 'chk project dates' CHECK ('end date' > 'start date'),
 CONSTRAINT `chk_project_budget` CHECK (`budget` >= 0)
);
-- Create SubProject table with updated columns
CREATE TABLE IF NOT EXISTS 'SubProject' (
 'id' INT NOT NULL AUTO INCREMENT,
 'name' VARCHAR(100) NOT NULL,
 'description' TEXT NOT NULL,
 `start_date` DATE NOT NULL,
 'end date' DATE NOT NULL,
 `assigned_to` VARCHAR(255) NOT NULL,
 'project_id' INT NOT NULL,
```

```
'actual price' DOUBLE NOT NULL,
 'budget' DOUBLE NOT NULL,
 'total est hours' INT NOT NULL,
 `created_date` DATETIME NOT NULL DEFAULT CURRENT_TIMESTAMP,
 'status' ENUM('ACTIVE', 'INACTIVE') NOT NULL DEFAULT 'ACTIVE',
 PRIMARY KEY ('id'),
 INDEX `project_id` (`project_id` ASC),
 CONSTRAINT 'SubProject ibfk 1'
  FOREIGN KEY ('project id')
  REFERENCES 'Project' ('id'),
 CONSTRAINT `chk_subproject_dates` CHECK (`end_date` > `start_date`),
 CONSTRAINT 'chk subproject budget' CHECK ('budget' >= 0)
);
-- Create Tasks table with updated references
CREATE TABLE IF NOT EXISTS 'Task' (
 'id' INT NOT NULL AUTO INCREMENT,
 'name' VARCHAR(100) NOT NULL,
 'description' TEXT NOT NULL,
 'start date' DATE NOT NULL,
 `end_date` DATE NOT NULL,
 'assigned to' VARCHAR(255) NOT NULL,
 'sub project id' INT NOT NULL,
 'price' DOUBLE NOT NULL DEFAULT 0,
 'total est hours' INT NOT NULL,
 'location' VARCHAR(255) NOT NULL,
 'created date' DATETIME NOT NULL DEFAULT CURRENT TIMESTAMP,
 'status' ENUM('ACTIVE', 'INACTIVE') NOT NULL DEFAULT 'ACTIVE',
 PRIMARY KEY ('id'),
 INDEX `sub_project_id` (`sub_project_id` ASC),
 CONSTRAINT 'Task ibfk 1'
  FOREIGN KEY ('sub project id')
  REFERENCES 'SubProject' ('id'),
 CONSTRAINT 'chk task dates' CHECK ('end date' > 'start date'),
 CONSTRAINT 'chk task price' CHECK ('price' >= 0)
```

);