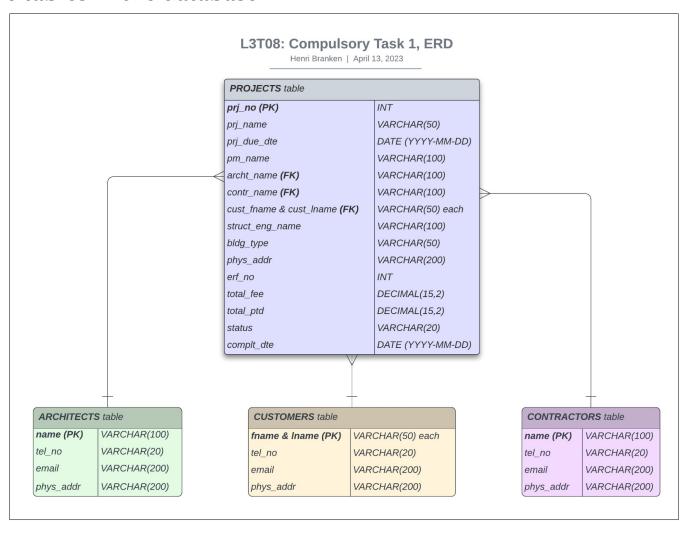
L3T08: Compulsory Task 1

The ERD for the tables in the database:



Tables Creation

The script for creating the database and its four tables. Please see the script Table_Creation.sql:

```
-- File Location: "C:\Users\HP Omen\Dropbox\HB21120005908\3. DB Skills Program\L3T08\CompulsoryTask1\Table Creation.sgl"
Before Creating Tables:
[1] Type 'services.msc' > MySQL > Right-Click > Start.
[2] cd "C:\Program Files\MySQL\MySQL Server 8.0\bin"
[3] mysql -u otheruser -p
[4] Type in the password: swordfish
[5] Type in the Command Prompt:
    source C:\Users\HP Omen\Dropbox\HB21120005908\3. DB Skills Program\L3T08\CompulsoryTask1\Table_Creation.sql
CREATE DATABASE IF NOT EXISTS PoisePMS;
USE PoisePMS;
DROP TABLE IF EXISTS projects;
CREATE TABLE projects (prj_no INT NOT NULL AUTO_INCREMENT,
                       prj_name VARCHAR(50),
                       prj_due_dte DATE NOT NULL,
                       pm_name VARCHAR(100) NOT NULL,
                       archt_name VARCHAR(100) NOT NULL,
                       contr name VARCHAR(100) NOT NULL,
                       cust_fname VARCHAR(50) NOT NULL,
                       cust_lname VARCHAR(50) NOT NULL,
                       struct_eng_name VARCHAR(100) NOT NULL,
                       bldg type VARCHAR(50) NOT NULL,
                       phys addr VARCHAR(200),
                       erf no INT,
                       total_fee DECIMAL(15,2),
                       total_ptd DECIMAL(15,2),
                       status VARCHAR(20) DEFAULT 'ongoing',
                       complt_dte DATE DEFAULT NULL,
                       PRIMARY KEY (prj_no),
                       UNIQUE (erf_no)
                       );
delimiter //
CREATE TRIGGER project name
BEFORE INSERT ON projects
FOR EACH ROW
BEGIN
 IF (NEW.prj_name IS NULL) THEN
 SET NEW.prj_name = CONCAT(NEW.bldg_type, ' ', NEW.cust_lname);
 END IF:
```

```
END;//
delimiter;
-- +------
DROP TABLE IF EXISTS architects;
CREATE TABLE architects (name VARCHAR(100) NOT NULL,
                  tel_no VARCHAR(20),
                  email VARCHAR(200),
                  phys_addr VARCHAR(200),
                  PRIMARY KEY (name)
-- +-----
DROP TABLE IF EXISTS customers;
CREATE TABLE customers (fname VARCHAR(50) NOT NULL,
                 lname VARCHAR(50) NOT NULL,
                 tel_no VARCHAR(20),
                 email VARCHAR(200),
                 phys_addr VARCHAR(200),
                 PRIMARY KEY (fname, lname)
-- +-----
DROP TABLE IF EXISTS contractors;
CREATE TABLE contractors (name VARCHAR(100) NOT NULL,
                   tel no VARCHAR(20),
                   email VARCHAR(200),
                   phys_addr VARCHAR(200),
                   PRIMARY KEY (name)
                   );
```

The output from MySQL

```
mysql> source C:\Users\HP Omen\Dropbox\HB21120005908\3. DB Skills Program\L3T08\Table_Creation.sql
Query OK, 1 row affected, 1 warning (0.01 sec)

Database changed
Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.02 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 0 rows affected (0.01 sec)
```

Data Insertion

The script for inserting the rows (data) into the tables. Please see the script Data_Insertion.sql

```
-- File Location: "C:\Users\HP Omen\Dropbox\HB21120005908\3. DB Skills Program\L3T08\CompulsoryTask1\Data Insertion.sgl"
If you're not running a MySQL session:
[1] Type 'services.msc' > MySQL > Right-Click > Start.
[2] cd "C:\Program Files\MySQL\MySQL Server 8.0\bin"
[3] mysql -u otheruser -p
[4] Type in the password: swordfish
[5] Type in the Command Prompt:
         source C:\Users\HP Omen\Dropbox\HB21120005908\3. DB Skills Program\L3T08\CompulsoryTask1\Data Insertion.sgl
  -- Empty the `projects` table for fresh insertion of new data.
DELETE FROM projects;
INSERT INTO projects (prj_due_dte, pm_name, archt_name, contr_name, cust_fname, struct_eng_name, bldg_type, phys_addr, erf_no, total_fee, total_ptd, status, complt_dte)
VALUES ('2023-04-13', 'Kelly Millard', 'Olive Yew', 'Exotic Services', 'Aida', 'Bugg', 'Teri Dactyl', 'school', '15 Ajax Str', 1250, 5000000.00, 3000000.00, 'ongoing', NULL),
('2023-03-10', 'Peg Legge', 'Allie Grater', 'Sensible Services', 'Liz', 'Erd', 'Alem Mused', 'apartment', '12 Jasmine Ave', 18675, 123000.00, 111000, 'ongoing', NULL),
('2023-06-08', 'Constance Noring', 'Loise Di Nominator', 'Stunning Services', 'Minnie', 'Van Ryder', 'Lynn Oleeum', 'house', '20 Earl Grey Str', 1654, 20000000.00, 'Gngoing', NULL),
('2023-02-25', 'Lee Sun', 'Ray Jasmine', 'Respectable Services', 'Isabelle', 'Ringing', 'Eileen Sideways', 'mall', '3 Aalwyn Str', 990852, 1500000000.00, 'finalised', '2023-02-24'),
('2023-01-15', 'Rita Book', 'Paige Turner', 'Golden Services', 'Rhoda', 'Report', 'Augusta Wind', 'museum', '2 Begonia ave', 7777777, 2000000000.00, 200000000.00, 'finalised', '2023-01-20'),
('2022-11-25', 'Chris Anthenum', 'Anne Teak', 'Splendid Services', 'Anita', 'Bath', 'Hope Furaletter', 'restaurant', '33 Crescent Rd', 1322, 80000.00, 80000.00, 'finalised', '2022-11-25');
  -- Display the `projects` data.
SELECT * FROM projects;
 -- Empty the `architects` table for fresh insertion of new data.
DELETE FROM architects;
INSERT INTO architects (name, tel_no, email, phys_addr)
VALUES ('Olive Yew', '057 357 2177', 'olive.yew@gmail.com', '729 Pouros Cres'),
('Allie Grater', '057 357 8324', 'allie.grater@gmail.com', '3613 Annabelle Str'),
 ('Loise Di Nominator', '057 352 1012', 'loise dinominator@gmail.com', '194 Jacobs Cres'), ('Ray Jasmine', '057 352 1234', 'ray.jasmine@gmail.com', '375 Pacocha Station'), ('Paige Turner', '057 355 8255', 'paige.turner@gmail.com', '613 Easton Ave'),
  ('Anne Teak', '057 355 6412', 'anne.teak@gmail.com', '503 Lavina Str');
  -- Display the `architects` data.
SELECT * FROM architects:
  -- Empty the `customers` table for fresh insertion of new data.
DELETE FROM customers;
INSERT INTO customers (fname, lname, tel_no, email, phys_addr)
VALUES ('Aida', 'Bugg', '063 251 2177', 'aida.bugg@gmail.com', '93 Stanley Str'),
('Liz', 'Erd', '063 251 8324', 'liz.erd@gmail.com', '13 Farelli Str'),
('Minnie', 'Van Ryder', '063 251 1012', 'minnie.vanryder@gmail.com', '204 Purdyferry Str'),
('Isabelle', 'Ringing', '063 251 1234', 'isabelle.ringing@gmail.com', '532 Hermiston Str'),
('Rhoda', 'Report', '063 251 8255', 'rhoda.report@gmail.com', '303 Theron Str'),
('Anita', 'Bath', '063 251 6412', 'anita.bath@gmail.com', '401 Schuster Str');
  -- Display the `customers` data.
SELECT * FROM customers;
```

The output from MySQL:

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