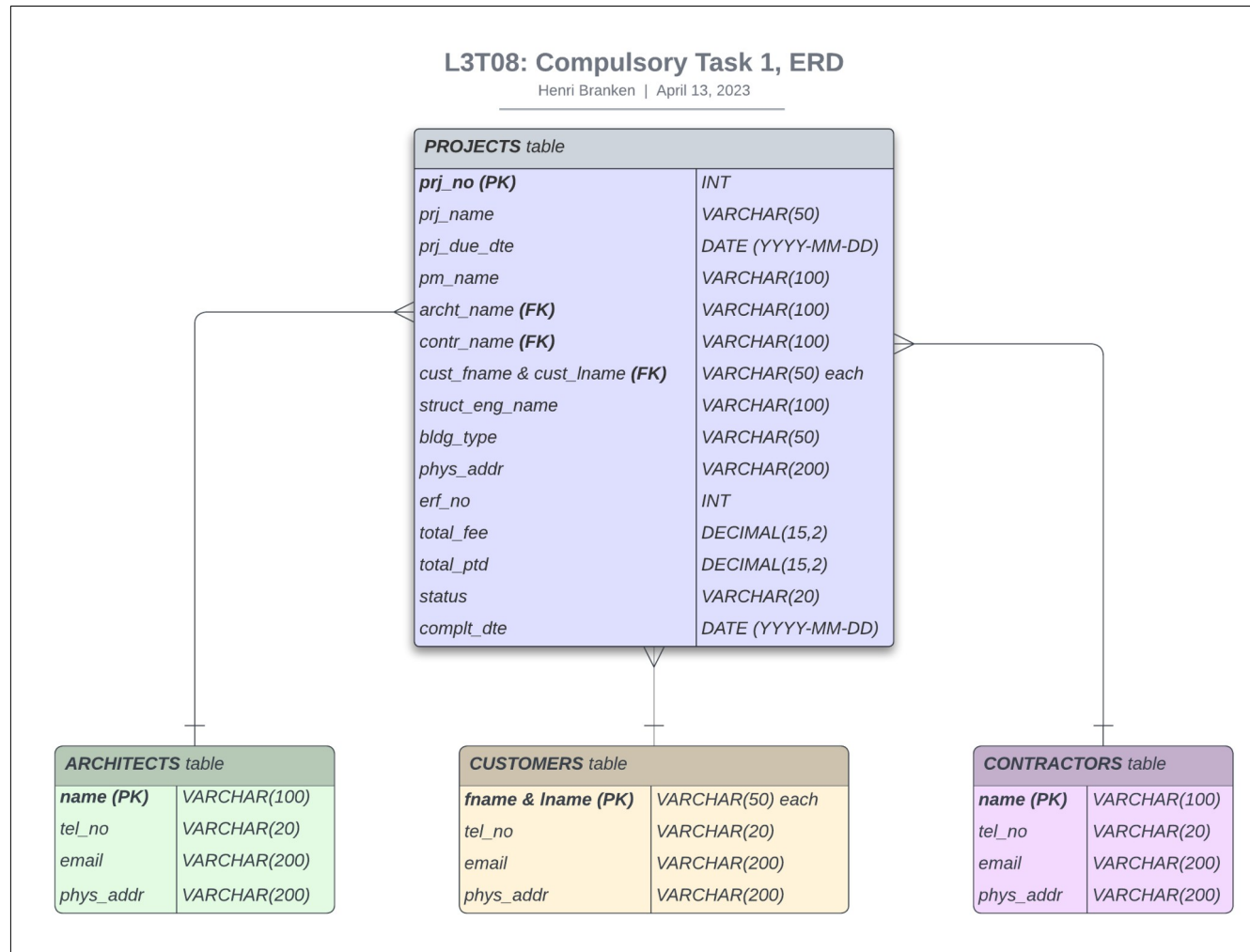


# L3T08: Compulsory Task 1

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.sql"
```

```
/*  
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 (0.01 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)

Query OK, 0 rows affected (0.01 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.sql"

/*
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.sql
*/

-- 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, cust_lname, 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, 2000000.00, 150000.00, 'ongoing', NULL),
('2023-02-25', 'Lee Sun', 'Ray Jasmine', 'Respectable Services', 'Isabelle', 'Ringing', 'Eileen Sideways', 'mall', '3 Aalwyn Str', 999852, 150000000.00, 150000000.00, 'finalised', '2023-02-24'),
('2023-01-15', 'Rita Book', 'Paige Turner', 'Golden Services', 'Rhoda', 'Report', 'Augusta Wind', 'museum', '2 Begonia ave', 7777777, 200000000.00, 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 Pouroos 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;

-- +-----+
```

```
-- Empty the `contractors` table for fresh insertion of new data.
DELETE FROM contractors;

INSERT INTO contractors (name, tel_no, email, phys_addr)
VALUES ('Exotic Services', '071 144 2177', 'exotic.services@gmail.com', '88 Dagmar Ave'),
('Sensible Services', '071 144 8324', 'sensible.services@gmail.com', '131 Dorothea Ave'),
('Stunning Services', '071 144 1012', 'stunning.services@gmail.com', '76 Alia Ave'),
('Respectable Services', '071 144 1234', 'respectable.services@gmail.com', '28 Cummings Ave'),
('Golden Services', '071 144 8255', 'golden.services@gmail.com', '65 Trantow Ave'),
('Splendid Services', '071 144 6412', 'splendid.services@gmail.com', '22 London Ave');

SELECT * FROM contractors;

-- +-----+
```

## The output from MySQL:

```
mysql> source C:\Users\HP Omen\Dropbox\HB21120005908\3. DB Skills Program\L3T08\Data_Insertion.sql
Query OK, 0 rows affected (0.00 sec)

Query OK, 6 rows affected (0.01 sec)
Records: 6 Duplicates: 0 Warnings: 0

+-----+-----+-----+-----+-----+-----+
| prj_no | prj_name | prj_due_dte | pm_name | archt_name | contr_name | cus |
+-----+-----+-----+-----+-----+-----+
| 1 | school Bugg | 2023-04-13 | Kelly Millard | Olive Yew | Exotic Services | Aid |
| 2 | apartment Erd | 2023-03-10 | Peg Legge | Allie Grater | Sensible Services | Liz |
| 3 | house Van Ryder | 2023-06-08 | Constance Noring | Loise Di Nominator | Stunning Services | Min |
| 4 | mall Ringing | 2023-02-25 | Lee Sun | Ray Jasmine | Respectable Services | Isa |
| 5 | museum Report | 2023-01-15 | Rita Book | Paige Turner | Golden Services | Rhod |
| 6 | restaurant Bath | 2022-11-25 | Chris Anthenum | Anne Teak | Splendid Services | And |
+-----+-----+-----+-----+-----+-----+

6 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 6 rows affected (0.00 sec)
Records: 6 Duplicates: 0 Warnings: 0

+-----+-----+-----+-----+
| name | tel_no | email | phys_addr |
+-----+-----+-----+-----+
| Allie Grater | 057 357 8324 | allie.grater@gmail.com | 3613 Annabelle Str |
| Anne Teak | 057 355 6412 | anne.teak@gmail.com | 503 Lavina Str |
| Loise Di Nominator | 057 352 1012 | loise.dinominator@gmail.com | 194 Jacobs Cres |
| Olive Yew | 057 357 2177 | olive.yew@gmail.com | 729 Pouras Cres |
| Paige Turner | 057 355 8255 | paige.turner@gmail.com | 613 Easton Ave |
| Ray Jasmine | 057 352 1234 | ray.jasmine@gmail.com | 375 Pacocha Station |
+-----+-----+-----+-----+

6 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 6 rows affected (0.00 sec)
Records: 6 Duplicates: 0 Warnings: 0

+-----+-----+-----+-----+
| fname | lname | tel_no | email | phys_addr |
+-----+-----+-----+-----+
| Aida | Bugg | 063 251 2177 | aida.bugg@gmail.com | 93 Stanley Str |
| Anita | Bath | 063 251 6412 | anita.bath@gmail.com | 401 Schuster Str |
| Isabelle | Ringing | 063 251 1234 | isabelle.ringing@gmail.com | 532 Hermiston 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 |
| Rhoda | Report | 063 251 8255 | rhoda.report@gmail.com | 303 Theron Str |
+-----+-----+-----+-----+

6 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

Query OK, 6 rows affected (0.00 sec)
Records: 6 Duplicates: 0 Warnings: 0

+-----+-----+-----+-----+
| name | tel_no | email | phys_addr |
+-----+-----+-----+-----+
| Exotic Services | 071 144 2177 | exotic.services@gmail.com | 88 Dagmar Ave |
| Golden Services | 071 144 8255 | golden.services@gmail.com | 65 Trantow Ave |
| Respectable Services | 071 144 1234 | respectable.services@gmail.com | 28 Cummings Ave |
| Sensible Services | 071 144 8324 | sensible.services@gmail.com | 131 Dorothea Ave |
| Splendid Services | 071 144 6412 | splendid.services@gmail.com | 22 London Ave |
| Stunning Services | 071 144 1012 | stunning.services@gmail.com | 76 Alia Ave |
+-----+-----+-----+-----+

6 rows in set (0.00 sec)
```