NTechnological Institute of the Philippines
938 Aurora Blvd. Cubao, Quezon City

College of Computer Studies

ITE 014 – Information Management

Final Period

| | |
|---|---|
| Group Number:<br>Name: **Faurillo, Ymnwl Jan P.**<br>**Tiamzon, Bryan Dominick**<br>**Ureta, Juster** | Date: 05/10/2023 |
| Program / Section: ITE 014 – Information Management CS22S2 | Instructor: Ms. Roxanne A. Pagaduan |
| Assessment Task: Project Part 4: Creating Tables and Managing Data | |

**Requirements:**

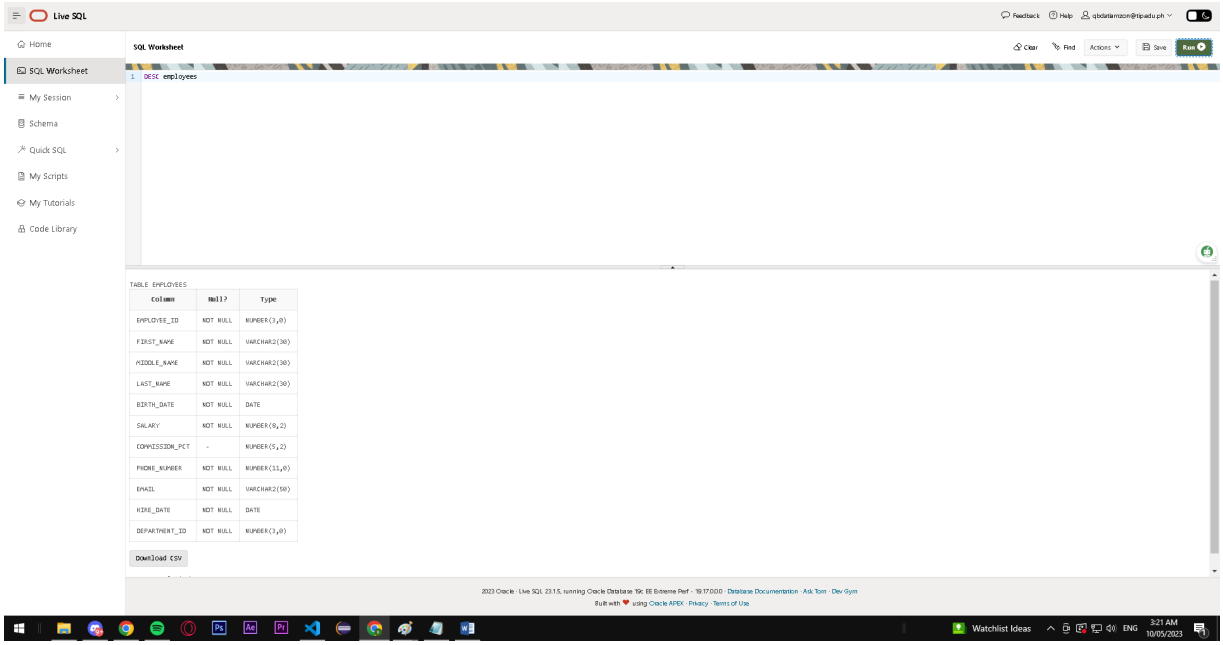
1. Collaborate with your team members and satisfy the following:
    - Create tables through SQL statements.
    - Provide the table structures (using describe function) of your database.
    - Insert records. (provide at least 30 transactions)
    - Add Constraints as applicable.
    - Note: Apply best practices in creating, inserting, updating, and managing data in your database.

2. Provide the specific contributions of each member. (use the template provided)
3. Submit all related files including .sql files used in the project.
4. Save your file as TeamName_ProjectPart3.DOCX and .PDF.

## ANSWER:

## TASK 1: Table Structure

### Table Name 1: Employees

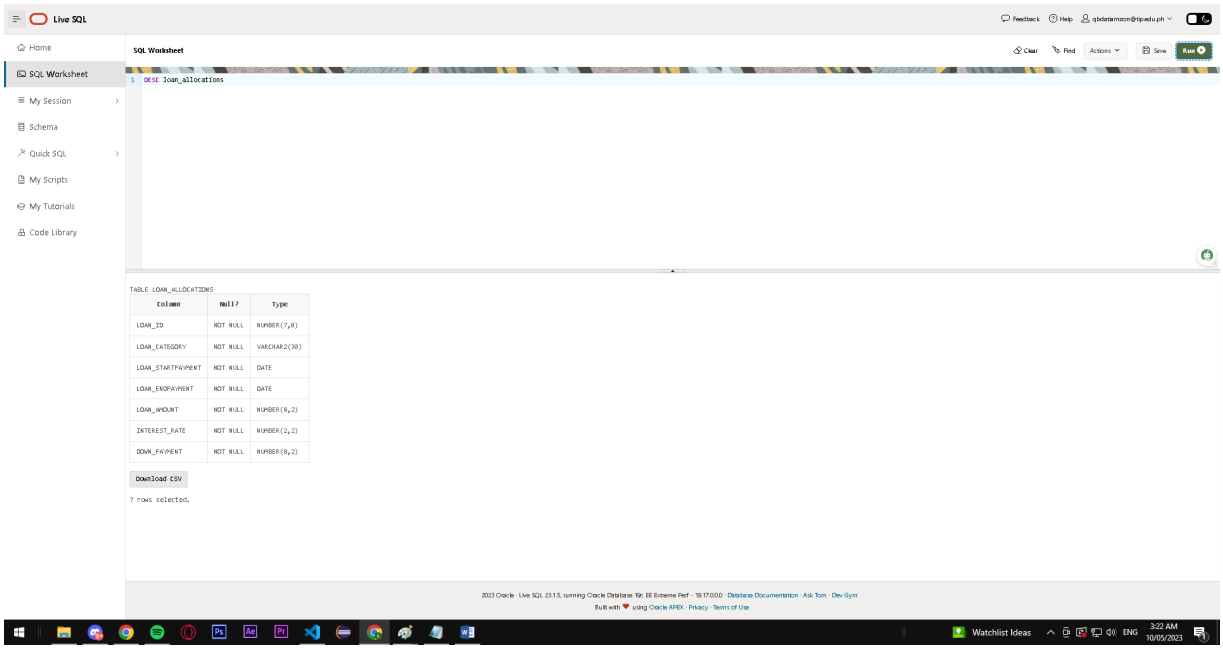



**This SQL query creates a table named "Employees" with the following columns:**

- employee_id: a non-null integer column with a maximum value of 3 digits, which is the primary key for the table.
- first_name: a non-null string column with a maximum length of 30 characters, representing the employee's first name.
- middle_name: a non-null string column with a maximum length of 30 characters, representing the employee's middle name.
- last_name: a non-null string column with a maximum length of 30 characters, representing the employee's last name.
- birth_date: a non-null date column representing the employee's date of birth.
- salary: a non-null numeric column with a maximum value of 8 digits, 2 of which are decimals, representing the employee's salary.
- commission_pct: a numeric column with a maximum value of 5 digits, 2 of which are decimals, representing the employee's commission percentage. This column can be null.
- phone_number: a non-null numeric column with a maximum value of 11 digits, representing the employee's phone number. This column also has a unique constraint to ensure that no two employees have the same phone number.
- email: a non-null string column with a maximum length of 50 characters, representing the employee's email address. This column also has a unique constraint to ensure that no two employees have the same email address.
- hire_date: a non-null date column representing the employee's hire date.
- department_id: a non-null integer column with a maximum value of 3 digits, representing the department that the employee belongs to.

The table creation statement also includes some constraints on certain columns to ensure data integrity. The primary key constraint on the "employee_id" column ensures that each employee has a unique identifier. The unique constraint on the "phone_number" and "email" columns ensures that no two employees have the same phone number or email address.

## Table Name 2: Loan_Allocations

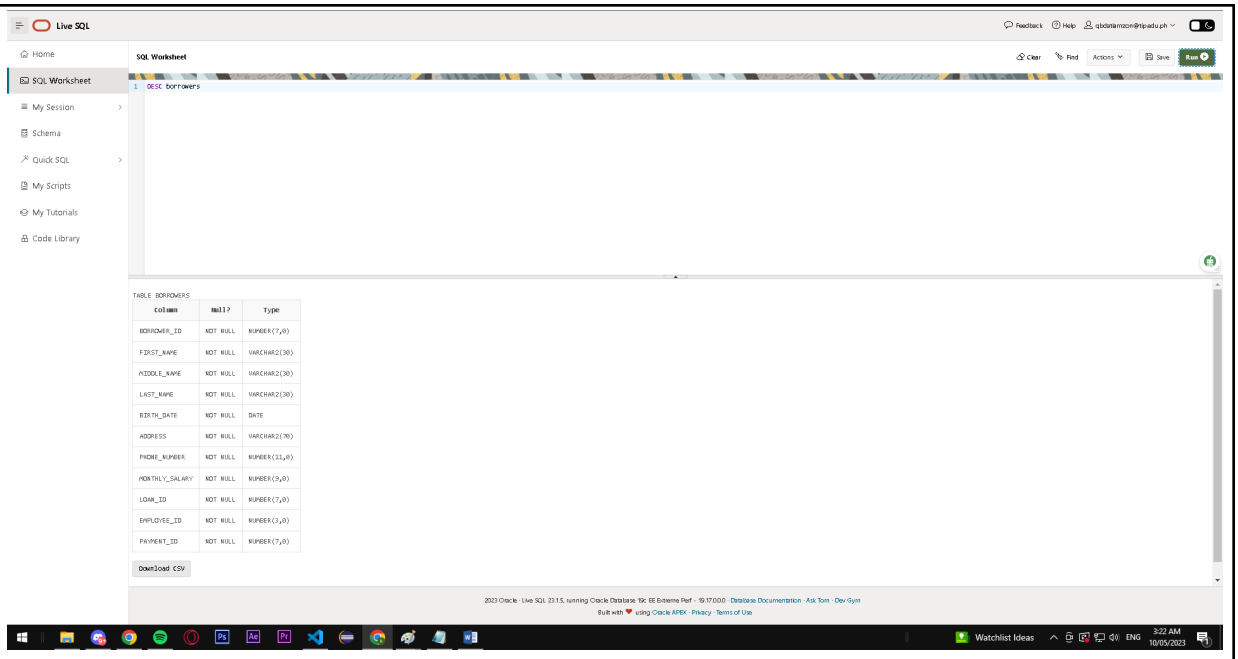



**This SQL query creates a table named "Loan_Allocations" with the following columns:**

- loan_id: a non-null integer column with a maximum value of 7 digits, which is the primary key for the table.
- loan_category: a non-null string column with a maximum length of 30 characters, representing the category of the loan.
- loan_startpayment: a non-null date column representing the start date of the loan payments.
- loan_endpayment: a non-null date column representing the end date of the loan payments.
- loan_amount: a non-null numeric column with a maximum value of 8 digits, 2 of which are decimals, representing the total amount of the loan.
- interest_rate: a non-null numeric column with a maximum value of 2 digits, 2 of which are decimals, representing the interest rate of the loan.
- down_payment: a non-null numeric column with a maximum value of 8 digits, 2 of which are decimals, representing the amount of down payment required for the loan.
- The table creation statement also includes a primary key constraint on the "loan_id" column to ensure that each loan allocation has a unique identifier.

This table seems to represent a loan allocation system where loans are categorized, have specific start and end dates for payments, and are associated with specific interest rates and down payments.

## Table Name 3: Borrowers

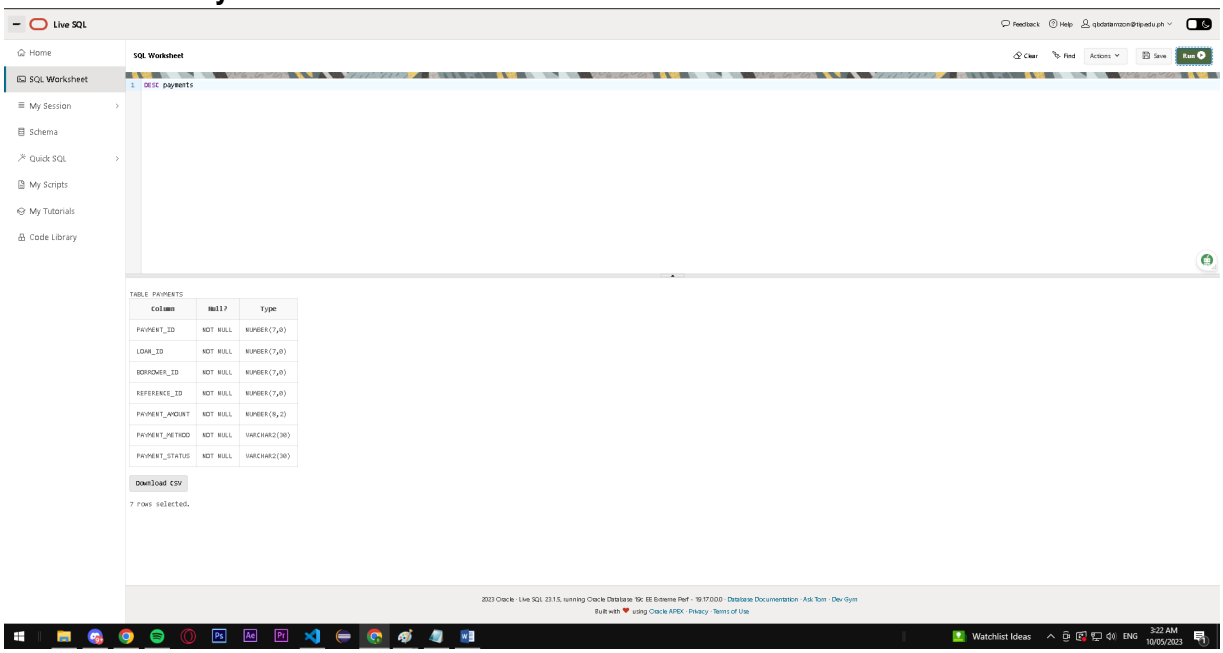



**This SQL query creates a table named "Borrowers" with the following columns:**

- borrower_id: a non-null integer column with a maximum value of 7 digits, which is the primary key for the table.
- first_name: a non-null string column with a maximum length of 30 characters, representing the borrower's first name.
- middle_name: a non-null string column with a maximum length of 30 characters, representing the borrower's middle name.
- last_name: a non-null string column with a maximum length of 30 characters, representing the borrower's last name.
- birth_date: a non-null date column representing the borrower's date of birth.
- address: a non-null string column with a maximum length of 70 characters, representing the borrower's address.
- phone_number: a non-null numeric column with a maximum value of 11 digits, representing the borrower's phone number. This column also has a unique constraint to ensure that no two borrowers have the same phone number.
- monthly_salary: a non-null numeric column with a maximum value of 9 digits, representing the borrower's monthly salary.
- loan_id: a non-null integer column with a maximum value of 7 digits, representing the loan allocation ID that the borrower is associated with. This column also has a foreign key constraint referencing the "loan_id" column in the "Loan_Allocations" table.
- employee_id: a non-null integer column with a maximum value of 3 digits, representing the employee ID of the employee who helped the borrower obtain the loan. This column also has a foreign key constraint referencing the "employee_id" column in the "Employees" table.
- payment_id: a non-null integer column with a maximum value of 7 digits, representing the payment ID associated with the borrower's loan payments.

The table creation statement also includes some constraints on certain columns to ensure data integrity. The primary key constraint on the "borrower_id" column ensures that each borrower has a unique identifier. The unique constraint on the "phone_number" column ensures that no two borrowers have the same phone number. Additionally, the "loan_id" and "employee_id" columns have foreign key constraints to ensure that the values inserted in those columns reference existing values in the "Loan_Allocations" and "Employees" tables, respectively.

**Table Name 4: Payments**



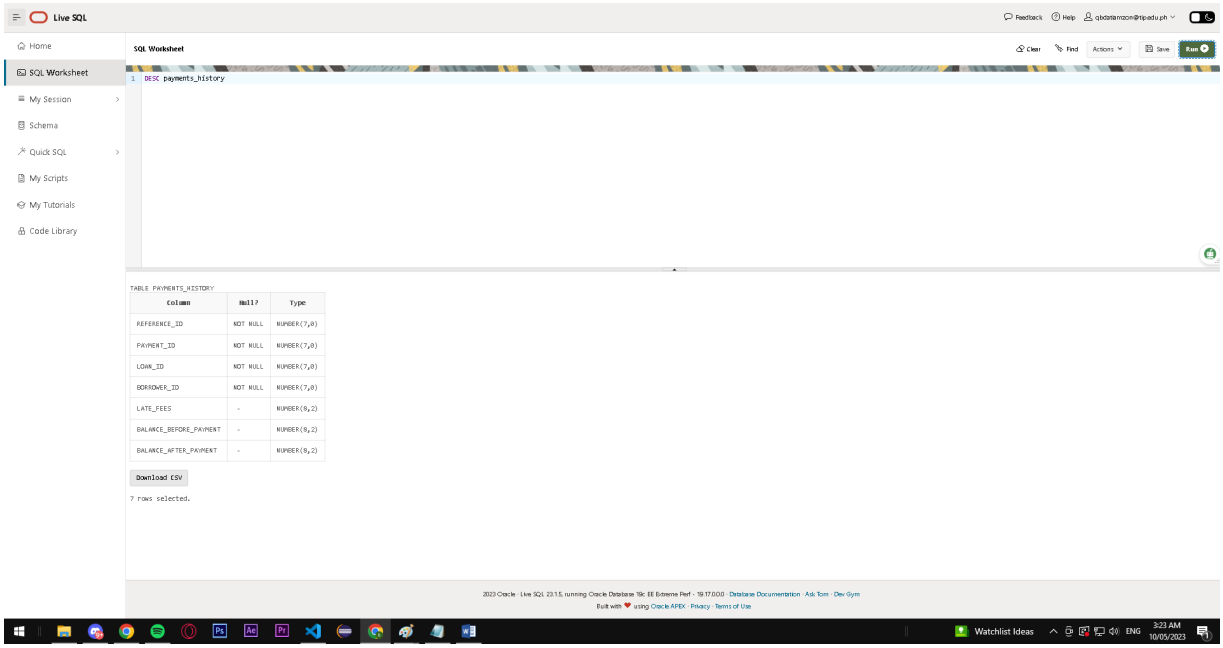

**This SQL query creates a table named "Payments" with the following columns:**

- payment_id: a non-null integer column with a maximum value of 7 digits, which is the primary key for the table.
- loan_id: a non-null integer column with a maximum value of 7 digits, representing the loan allocation ID associated with the payment. This column also has a foreign key constraint referencing the "loan_id" column in the "Loan_Allocations" table.
- borrower_id: a non-null integer column with a maximum value of 7 digits, representing the borrower ID associated with the payment. This column also has a foreign key constraint referencing the "borrower_id" column in the "Borrowers" table.
- reference_id: a non-null integer column with a maximum value of 7 digits, representing the unique reference ID associated with the payment.
- payment_amount: a non-null numeric column with a maximum value of 8 digits and 2 decimal places, representing the payment amount.
- payment_method: a non-null string column with a maximum length of 30 characters, representing the payment method used to make the payment.
- payment_status: a non-null string column with a maximum length of 30 characters,

representing the current status of the payment.

The table creation statement also includes some constraints on certain columns to ensure data integrity. The primary key constraint on the "payment_id" column ensures that each payment has a unique identifier. The foreign key constraints on the "loan_id" and "borrower_id" columns ensure that the values inserted in those columns reference existing values in the "Loan_Allocations" and "Borrowers" tables, respectively.

**Table Name 5: Payments_History**



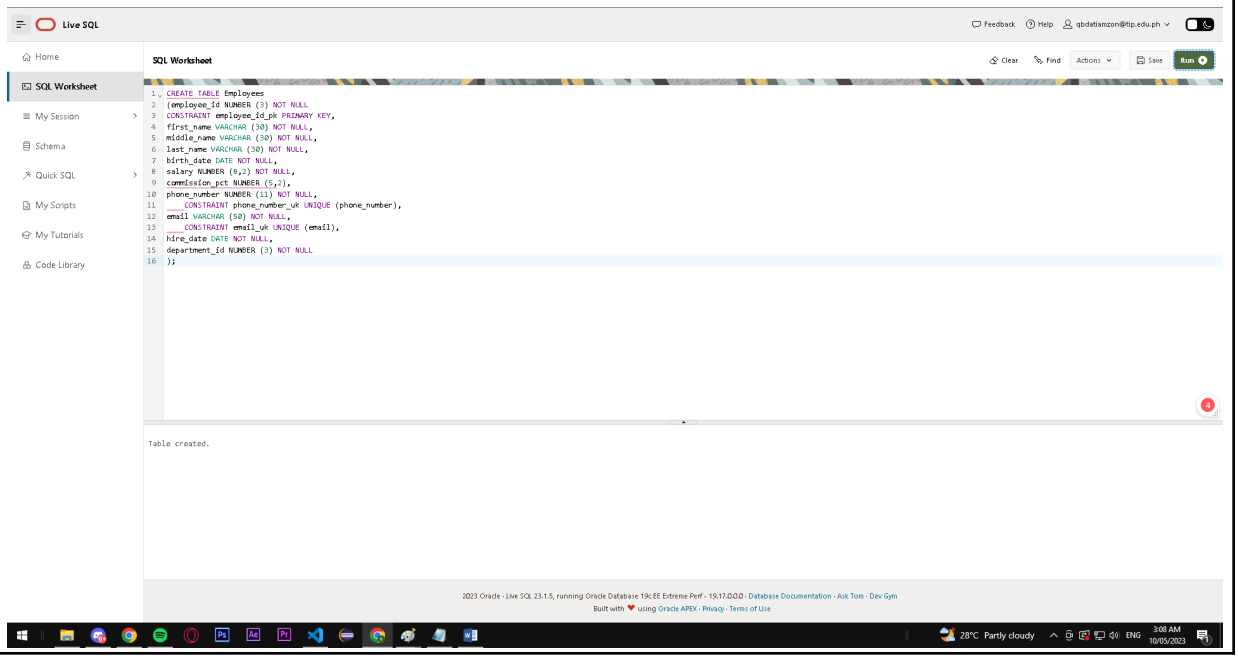

**This SQL query creates a table named "Payments_History" with the following columns:**

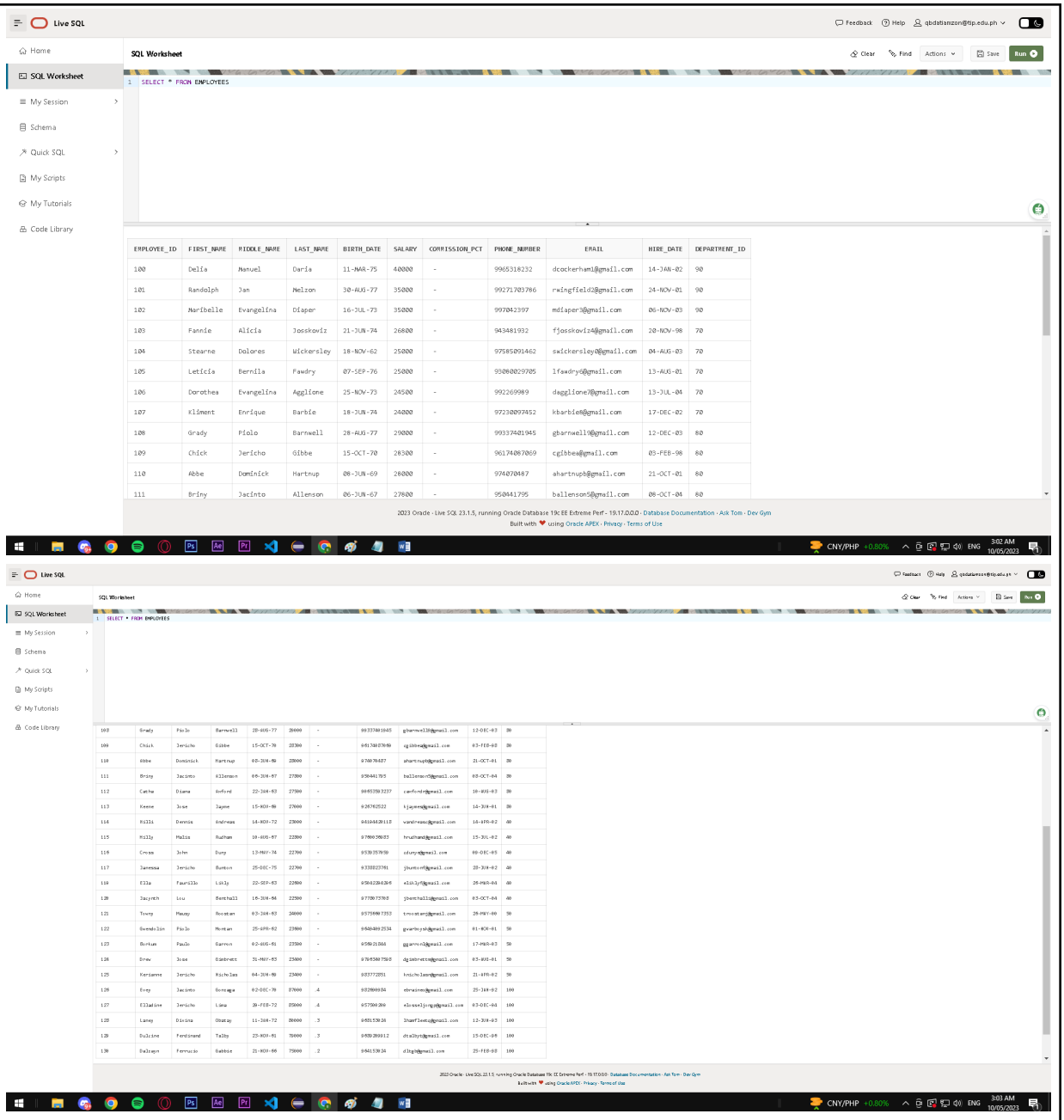
- reference_id: a non-null integer column with a maximum value of 7 digits, which is the primary key for the table and represents the unique reference ID associated with a payment.
- payment_id: a non-null integer column with a maximum value of 7 digits, representing the payment ID associated with the payment. This column also has a foreign key constraint referencing the "payment_id" column in the "Payments" table.
- loan_id: a non-null integer column with a maximum value of 7 digits, representing the loan allocation ID associated with the payment. This column also has a foreign key constraint referencing the "loan_id" column in the "Loan_Allocations" table.
- borrower_id: a non-null integer column with a maximum value of 7 digits, representing the borrower ID associated with the payment. This column also has a foreign key constraint referencing the "borrower_id" column in the "Borrowers" table.
- late_fees: a numeric column with a maximum value of 8 digits and 2 decimal places, representing any late fees associated with the payment.
- balance_before_payment: a numeric column with a maximum value of 8 digits and 2 decimal places, representing the balance of the loan before the payment was made.
- balance_after_payment: a numeric column with a maximum value of 8 digits and 2 decimal places, representing the balance of the loan after the payment was made.

The table creation statement includes some constraints on certain columns to ensure data integrity. The primary key constraint on the "reference_id" column ensures that each payment has a unique reference ID. The foreign key constraints on the "payment_id", "loan_id", and "borrower_id" columns ensure that the values inserted in those columns reference existing values in the "Payments", "Loan_Allocations", and "Borrowers" tables, respectively.

## TASK 2: Creating Tables (SQL Statements)

### Table Name 1: Employees Table (Table Created)



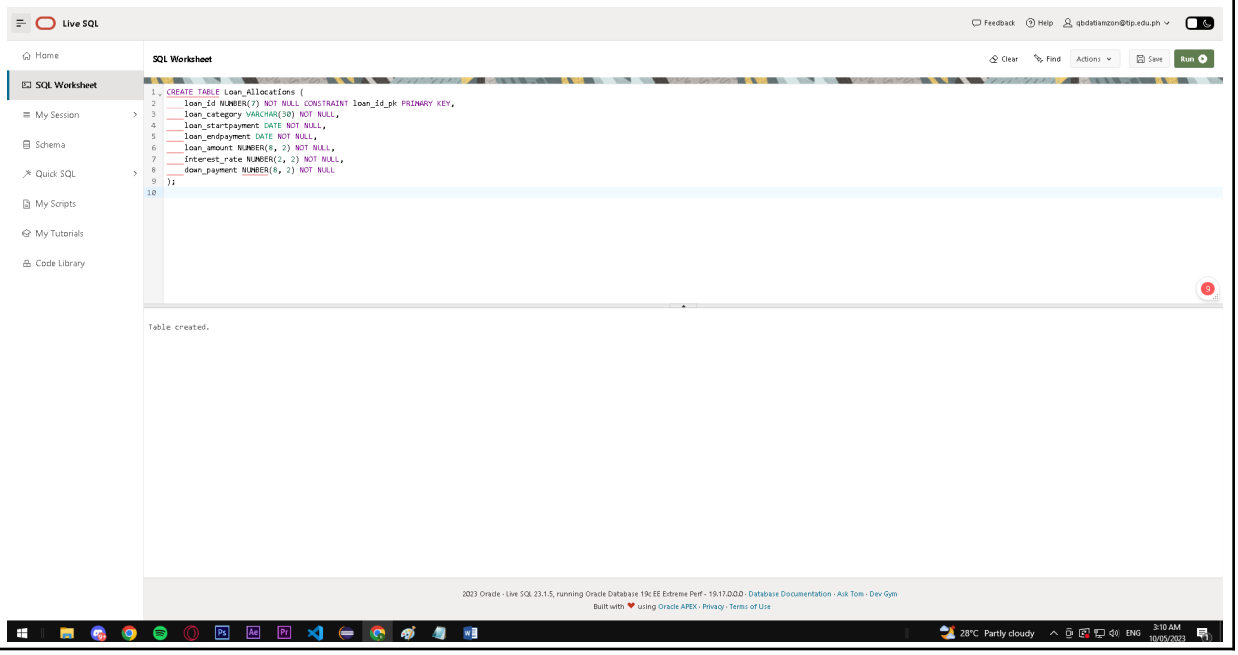


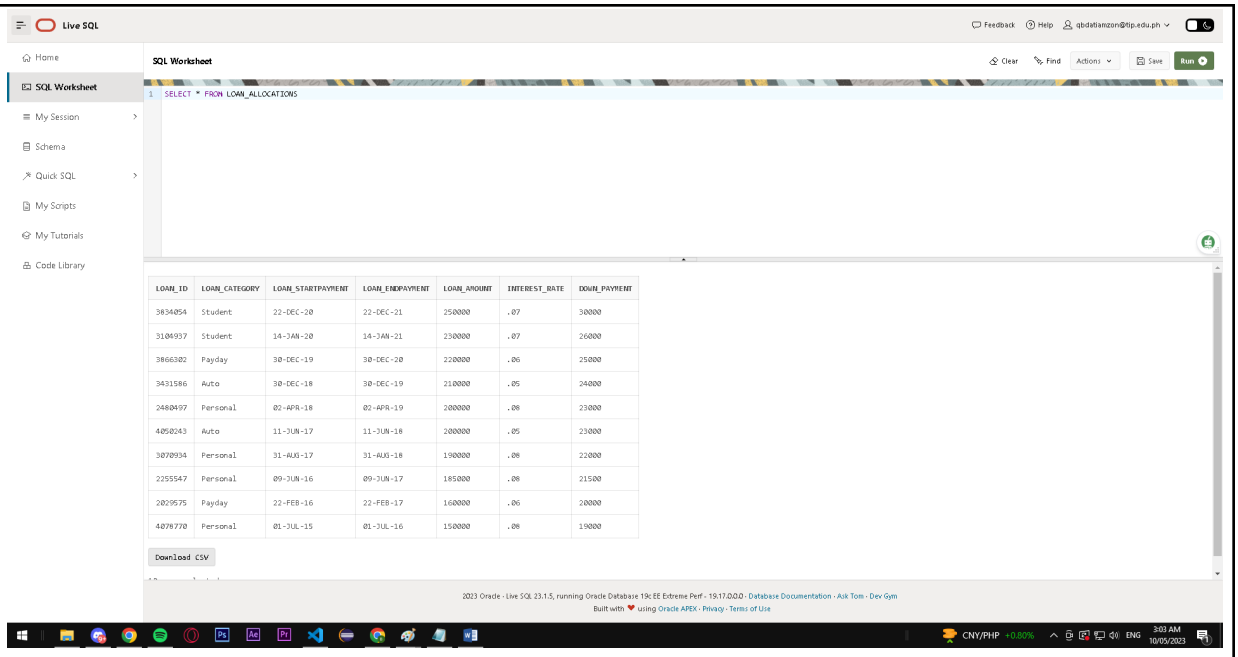

**(The employees table has successfully been created and was able to display the table).**

**Query for Employees Table**

```
CREATE TABLE Employees
(employee_id NUMBER (3) NOT NULL
CONSTRAINT employee_id_pk PRIMARY KEY,
first_name VARCHAR (30) NOT NULL,
middle_name VARCHAR (30) NOT NULL,
last_name VARCHAR (30) NOT NULL,
birth_date DATE NOT NULL,
salary NUMBER (8,2) NOT NULL,
commission_pct NUMBER (5,2),
phone_number NUMBER (11) NOT NULL,
    CONSTRAINT phone_number_uk UNIQUE (phone_number),
email VARCHAR (50) NOT NULL,
    CONSTRAINT email_uk UNIQUE (email),
hire_date DATE NOT NULL,
department_id NUMBER (3) NOT NULL
);
```

**Table Name 2: Loan Allocations Table (Table Created)**



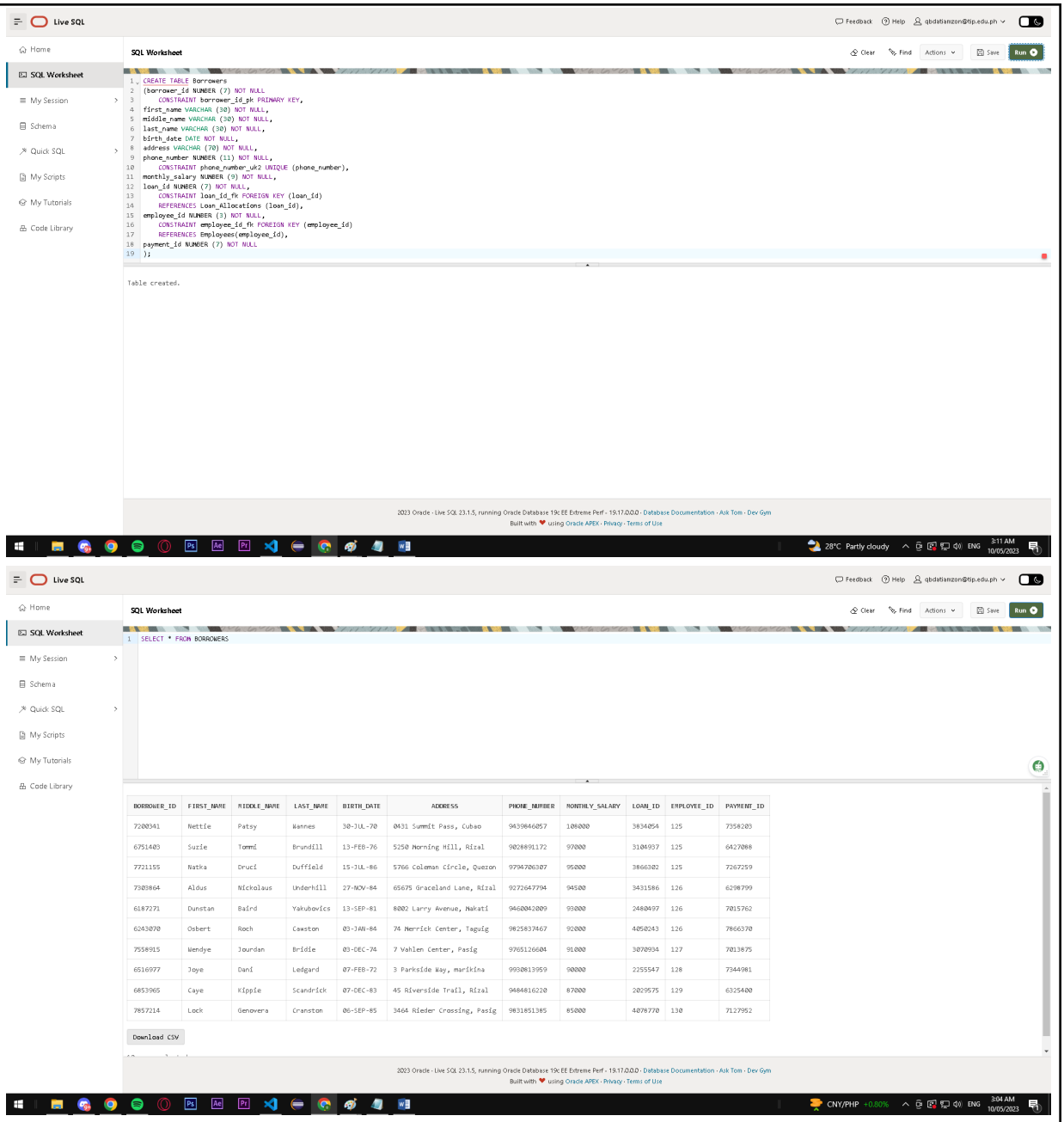



**(The loan allocations table has successfully been created and was able to display the table).**

**Query for Loan Allocations Table:**

```
CREATE TABLE Loan_Allocations (
   loan_id NUMBER(7) NOT NULL CONSTRAINT loan_id_pk PRIMARY KEY,
   loan_category VARCHAR(30) NOT NULL,
   loan_startpayment DATE NOT NULL,
   loan_endpayment DATE NOT NULL,
   loan_amount NUMBER(8, 2) NOT NULL,CREATE
   interest_rate NUMBER(2, 2) NOT NULL,
   down_payment NUMBER(8, 2) NOT NULL
);
```

**Table Name 3: Borrows Table (Table Created)**





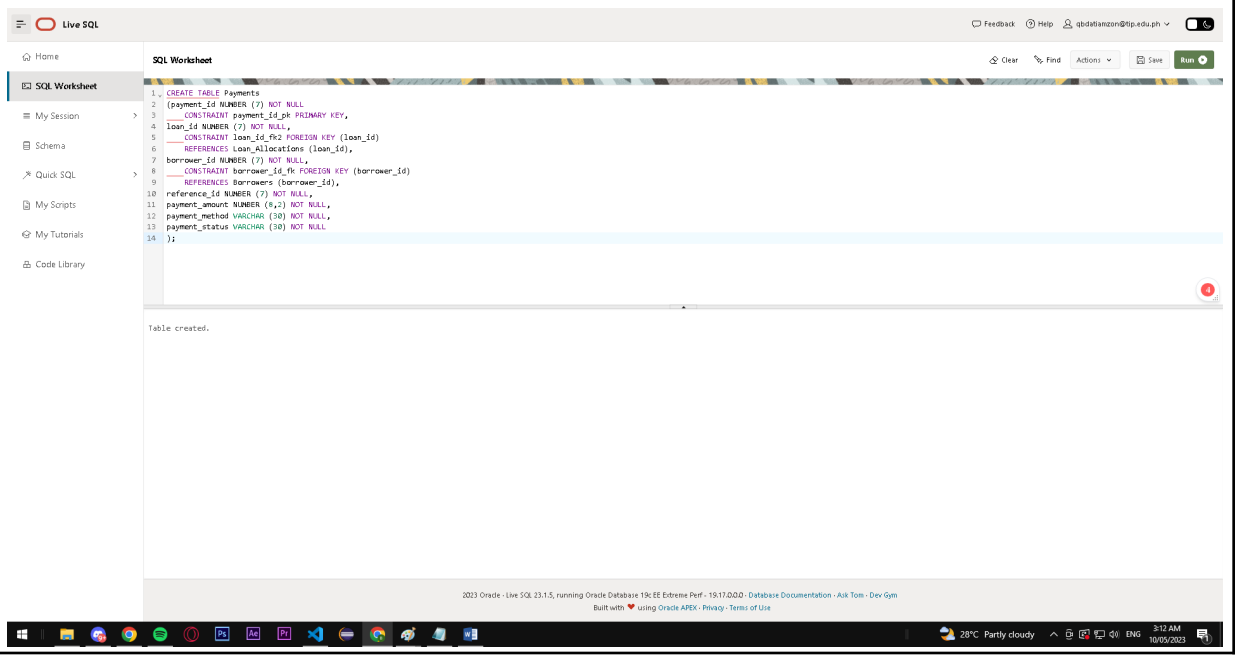


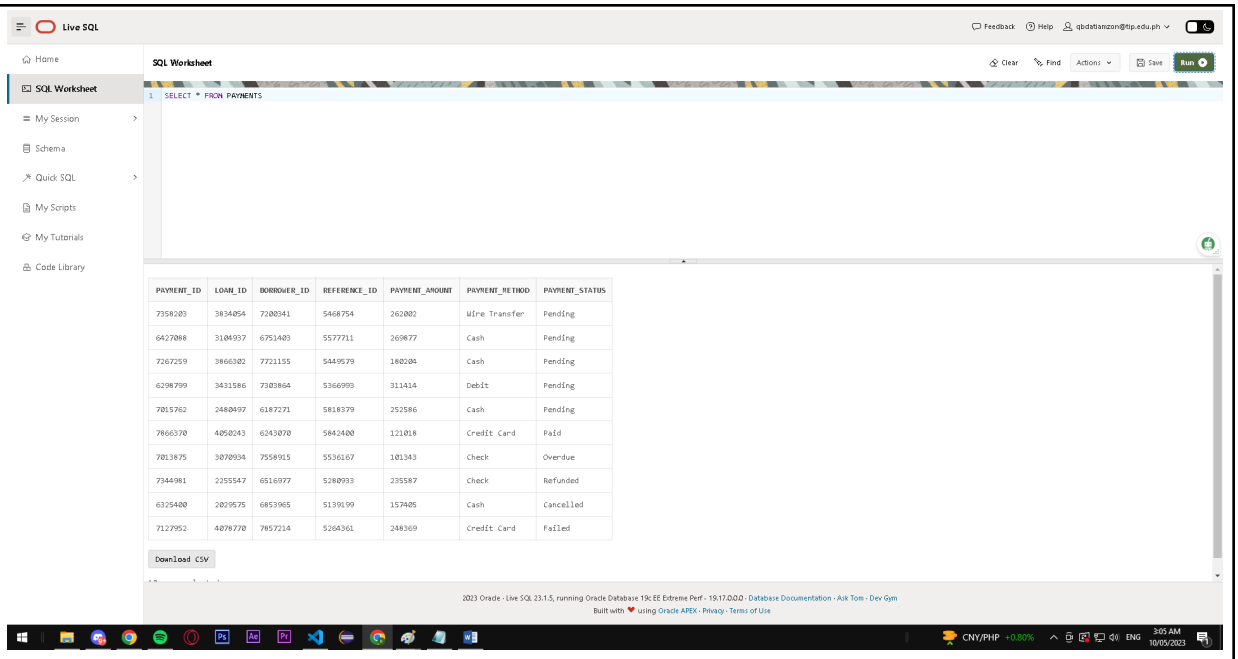
**(The borrowers table has successfully been created and was able to display the table).**

**Query for Borrows Table:**

```
CREATE TABLE Borrowers
(borrower_id NUMBER (7) NOT NULL
        CONSTRAINT borrower_id_pk PRIMARY KEY,
first_name VARCHAR (30) NOT NULL,
middle_name VARCHAR (30) NOT NULL,
last_name VARCHAR (30) NOT NULL,
birth_date DATE NOT NULL,
address VARCHAR (70) NOT NULL,
phone_number NUMBER (11) NOT NULL,
   CONSTRAINT phone_number_uk2 UNIQUE (phone_number),
monthly_salary NUMBER (9) NOT NULL,
loan_id NUMBER (7) NOT NULL,
   CONSTRAINT loan_id_fk FOREIGN KEY (loan_id)
   REFERENCES Loan_Allocations (loan_id),
employee_id NUMBER (3) NOT NULL,
   CONSTRAINT employee_id_fk FOREIGN KEY (employee_id)
   REFERENCES Employees(employee_id),
payment_id NUMBER (7) NOT NULL
);
```

**Table Name 4: Payments Table (Table Created)**



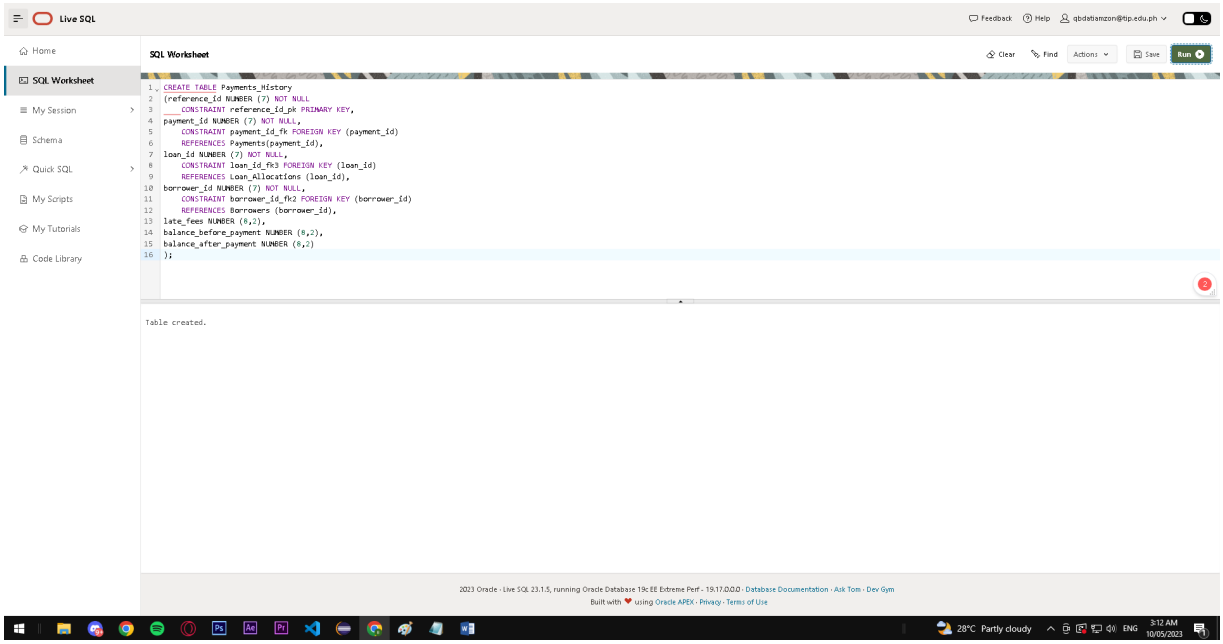


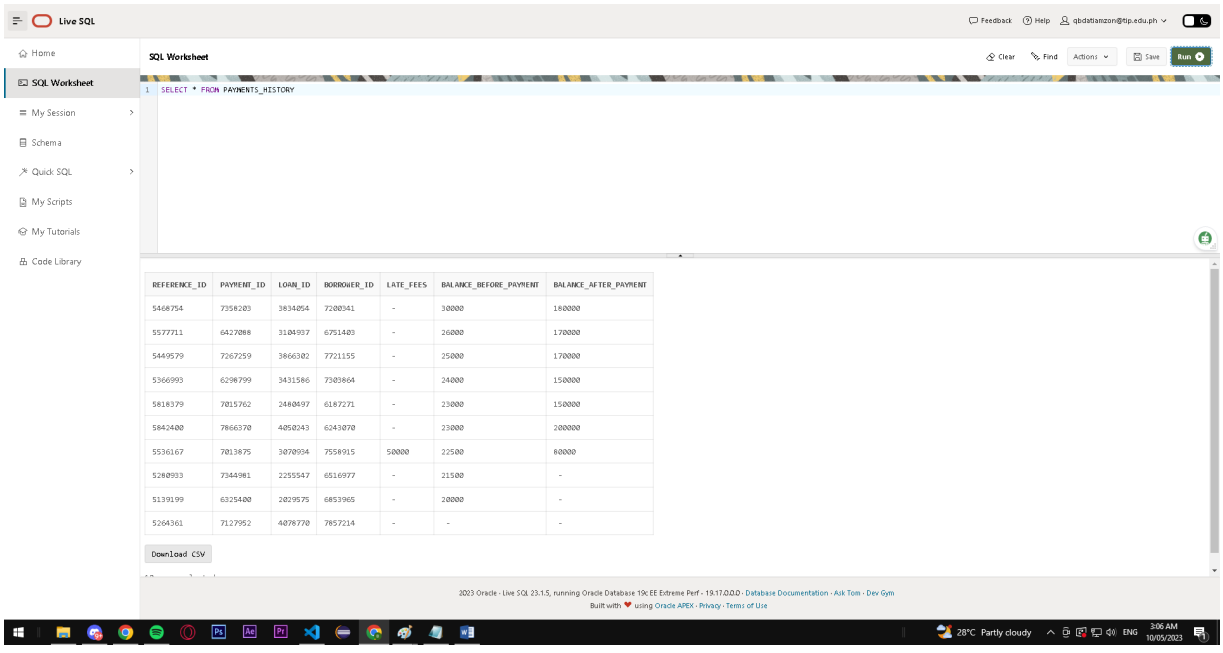

**(The payments table has successfully been created and was able to display the table).**

**Query for Payments Table:**

```
CREATE TABLE Payments
(payment_id NUMBER (7) NOT NULL
    CONSTRAINT payment_id_pk PRIMARY KEY,
loan_id NUMBER (7) NOT NULL,
    CONSTRAINT loan_id_fk2 FOREIGN KEY (loan_id)
    REFERENCES Loan_Allocations (loan_id),
borrower_id NUMBER (7) NOT NULL,
    CONSTRAINT borrower_id_fk FOREIGN KEY (borrower_id)
    REFERENCES Borrowers (borrower_id),
reference_id NUMBER (7) NOT NULL,
payment_amount NUMBER (8,2) NOT NULL,
payment_method VARCHAR (30) NOT NULL,
payment_status VARCHAR (30) NOT NULL
);
```

## Table Name 5: Payments_History Table (Table Created)



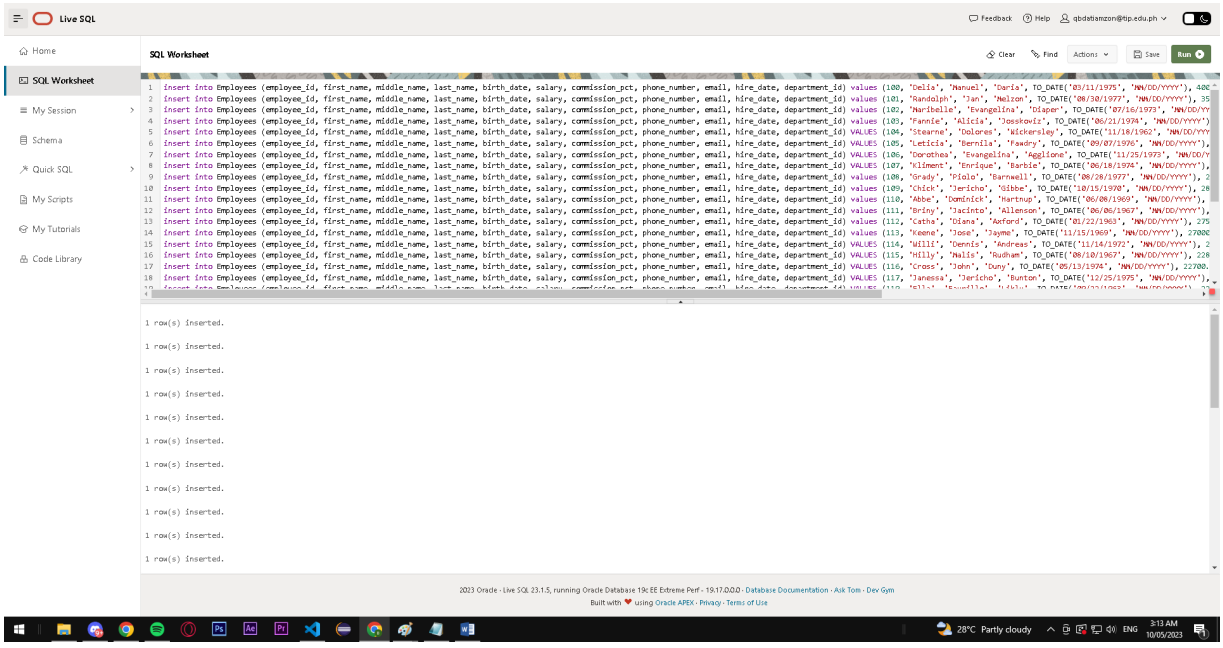

**(The payments history table has successfully been created and was able to display the table).**

**Query for Payments History:**

```
CREATE TABLE Payments_History
(reference_id NUMBER (7) NOT NULL
   CONSTRAINT reference_id_pk PRIMARY KEY,
payment_id NUMBER (7) NOT NULL,
         CONSTRAINT payment_id_fk FOREIGN KEY (payment_id)
         REFERENCES Payments(payment_id),
loan_id NUMBER (7) NOT NULL,
   CONSTRAINT loan_id_fk3 FOREIGN KEY (loan_id)
   REFERENCES Loan_Allocations (loan_id),
borrower_id NUMBER (7) NOT NULL,
   CONSTRAINT borrower_id_fk2 FOREIGN KEY (borrower_id)
   REFERENCES Borrowers (borrower_id),
late_fees NUMBER (8,2),
balance_before_payment NUMBER (8,2),
balance_after_payment NUMBER (8,2)
);
```

## TASK 3: Inserting Records (SQL Statements)

### Table Name 1: Employees Table (30 rows inserted)



**These are SQL insert queries for adding new records to a table named "Employees." Each query represents one record to be added, and the values enclosed in parentheses represent the values for each field in the record.**

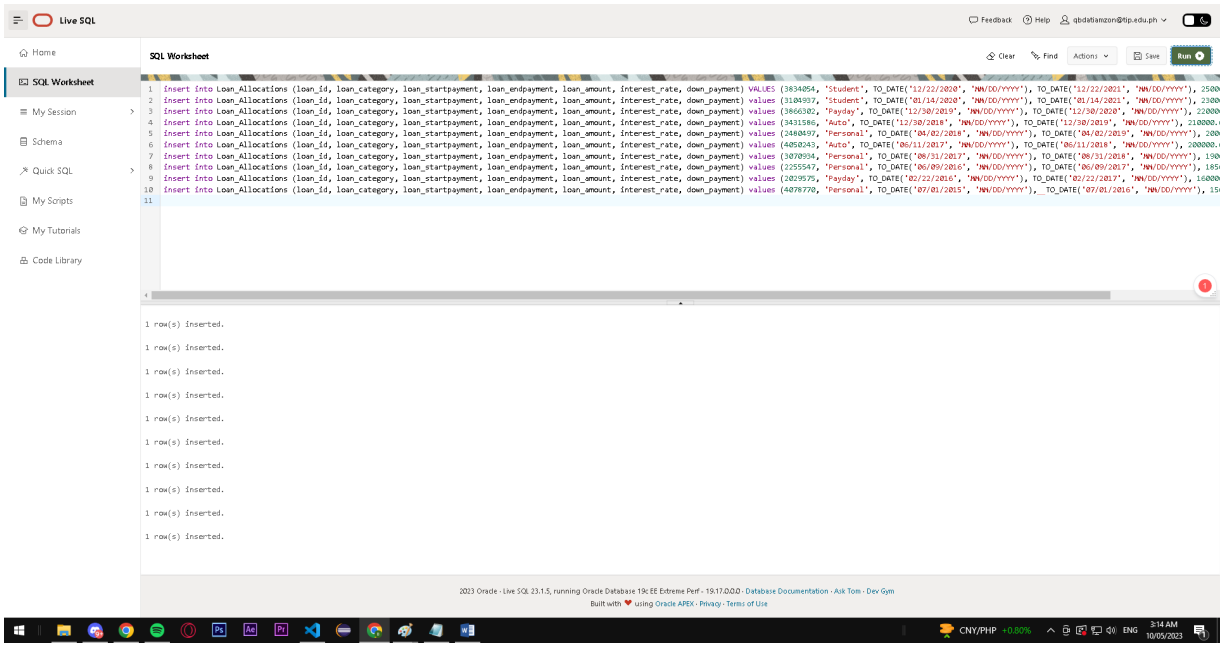
**Query for Inserting Employees Data:**

```
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (100, 'Delia', 'Manuel', 'Daria',
TO_DATE('03/11/1975', 'MM/DD/YYYY'), 40000.00, NULL, '09965318232', 'dcockerham1@gmail.com',
TO_DATE('01/14/2002', 'MM/DD/YYYY'), 90);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (101, 'Randolph', 'Jan',
'Melzon', TO_DATE('08/30/1977', 'MM/DD/YYYY'), 35000.00, NULL, '099271703786',
'rwingfield2@gmail.com', TO_DATE('11/24/2001', 'MM/DD/YYYY'), 90);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (102, 'Maribelle', 'Evangelina',
'Diaper', TO_DATE('07/16/1973', 'MM/DD/YYYY'), 35000.00, NULL, '0997042397',
'mdiaper3@gmail.com', TO_DATE('11/06/2003', 'MM/DD/YYYY'), 90);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (103, 'Fannie', 'Alicia',
'Josskoviz', TO_DATE('06/21/1974', 'MM/DD/YYYY'), 26800.00, NULL, '0943481932',
'fjosskoviz4@gmail.com', TO_DATE('11/20/1998', 'MM/DD/YYYY'), 70);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (104, 'Stearne', 'Dolores',
'Wickersley', TO_DATE('11/18/1962', 'MM/DD/YYYY'), 25000.00, NULL, '097585091462',
'swickersley0@gmail.com', TO_DATE('08/04/2003', 'MM/DD/YYYY'), 70);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (105, 'Leticia', 'Bernila',
'Fawdry', TO_DATE('09/07/1976', 'MM/DD/YYYY'), 25000.00, NULL, '093080029705',
'lfawdry6@gmail.com', TO_DATE('08/13/2001', 'MM/DD/YYYY'), 70);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (106, 'Dorothea',
'Evangelina', 'Agglione', TO_DATE('11/25/1973', 'MM/DD/YYYY'), 24500.00, NULL, '0992269989',
'dagglione7@gmail.com', TO_DATE('07/13/2004', 'MM/DD/YYYY'), 70);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (107, 'Kliment', 'Enrique',
'Barbie', TO_DATE('06/18/1974', 'MM/DD/YYYY'), 24000.00, NULL, '097230097452',
'kbarbie8@gmail.com', TO_DATE('12/17/2002', 'MM/DD/YYYY'), 70);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (108, 'Grady', 'Piolo',
'Barnwell', TO_DATE('08/28/1977', 'MM/DD/YYYY'), 29000.00, NULL, '099337401945',
'gbarnwell9@gmail.com', TO_DATE('12/12/2003', 'MM/DD/YYYY'), 80);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (109, 'Chick', 'Jericho',
'Gibbe', TO_DATE('10/15/1970', 'MM/DD/YYYY'), 28300.00, NULL, '096174087069',
'cgibbea@gmail.com', TO_DATE('02/03/1998', 'MM/DD/YYYY'),80);
```

```
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (110, 'Abbe', 'Dominick',
'Hartnup', TO_DATE('06/08/1969', 'MM/DD/YYYY'), 28000.00, NULL, '0974070487',
'ahartnupb@gmail.com', TO_DATE('10/21/2001', 'MM/DD/YYYY'),80);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (111, 'Briny', 'Jacinto',
'Allenson', TO_DATE('06/06/1967', 'MM/DD/YYYY'), 27800.00, NULL, '0950441795',
'ballenson5@gmail.com', TO_DATE('10/08/2004', 'MM/DD/YYYY'),80);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (112, 'Catha', 'Diana', 'Axford',
TO_DATE('01/22/1963', 'MM/DD/YYYY'), 27500.00, NULL, '090653593237', 'caxfordr@gmail.com',
TO_DATE('08/10/2003', 'MM/DD/YYYY'),80);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (113, 'Keene', 'Jose', 'Jayme',
TO_DATE('11/15/1969', 'MM/DD/YYYY'), 27000.00, NULL, '0926762522', 'kjaymes@gmail.com',
TO_DATE('06/14/2001', 'MM/DD/YYYY'),80);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (114, 'Willi', 'Dennis',
'Andreas', TO_DATE('11/14/1972', 'MM/DD/YYYY'), 23000.00, NULL, '094194420118',
'wandreasc@gmail.com', TO_DATE('04/14/2002', 'MM/DD/YYYY'),40);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (115, 'Hilly', 'Malis',
'Rudham', TO_DATE('08/10/1967', 'MM/DD/YYYY'), 22800.00, NULL, '09760036983',
'hrudhamd@gmail.com', TO_DATE('07/15/2002', 'MM/DD/YYYY'),40);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (116, 'Cross', 'John', 'Duny',
TO_DATE('05/13/1974', 'MM/DD/YYYY'), 22700.00, NULL, '09539357059', 'cdunye@gmail.com',
TO_DATE('12/09/2005', 'MM/DD/YYYY'),40);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (117, 'Janessa', 'Jericho',
'Bunton', TO_DATE('12/25/1975', 'MM/DD/YYYY'), 22700.00, NULL, '09338823761',
'jbuntonf@gmail.com', TO_DATE('06/28/2002', 'MM/DD/YYYY'), 40);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (119, 'Ella', 'Faurillo', 'Likly',
TO_DATE('09/22/1963', 'MM/DD/YYYY'), 22600.00, NULL, '095042294296', 'eliklyf@gmail.com',
TO_DATE('03/26/2004', 'MM/DD/YYYY'), 40);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (120, 'Jacynth', 'Lou',
'Benthall', TO_DATE('06/16/1964', 'MM/DD/YYYY'), 22500.00, NULL, '09778073708',
'jbenthalli@gmail.com', TO_DATE('10/03/2004', 'MM/DD/YYYY'), 40);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (121, 'Towny', 'Mausy',
'Roostan', TO_DATE('01/03/1963', 'MM/DD/YYYY'), 24000.00, NULL, '095756607353',
'troostanj@gmail.com', TO_DATE('05/26/2000', 'MM/DD/YYYY'), 50);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (122, 'Gwendolin', 'Piolo',
```

'Montan', TO_DATE('04/25/1962', 'MM/DD/YYYY'), 23600.00, NULL, '096494092534',
'gwarboysk@gmail.com', TO_DATE('11/01/2001', 'MM/DD/YYYY'), 50);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (123, 'Borkum', 'Paulo',
'Garron', TO_DATE('08/02/1961', 'MM/DD/YYYY'), 23500.00, NULL, '0956921844',
'ggarronl@gmail.com', TO_DATE('03/17/2003', 'MM/DD/YYYY'),50);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (124, 'Drew', 'Jose',
'Gimbrett', TO_DATE('05/31/1963', 'MM/DD/YYYY'), 23400.00, NULL, '097963407598',
'dgimbrettm@gmail.com', TO_DATE('08/03/2001', 'MM/DD/YYYY'),50);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (125, 'Kerianne', 'Jericho',
'Nicholas', TO_DATE('06/04/1969', 'MM/DD/YYYY'), 23400.00, NULL, '0983772851',
'knicholasn@gmail.com', TO_DATE('04/21/2002', 'MM/DD/YYYY'),50);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (126, 'Evey', 'Jacinto',
'Gonzaga', TO_DATE('12/02/1970', 'MM/DD/YYYY'), 87000.00, 0.4, '0982690984',
'ebraineo@gmail.com', TO_DATE('01/25/1992', 'MM/DD/YYYY'),100);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (127, 'Elladine', 'Jericho',
'Lima', TO_DATE('02/29/1972', 'MM/DD/YYYY'), 85000.00, 0.4, '0957500209',
'elosseljongp@gmail.com', TO_DATE('12/03/1994', 'MM/DD/YYYY'),100);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) VALUES (128, 'Laney', 'Divina',
'Obatay', TO_DATE('01/11/1972', 'MM/DD/YYYY'), 80000.00, 0.3, '0968153024',
'lhamfleetq@gmail.com', TO_DATE('06/12/1993', 'MM/DD/YYYY'),100);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (129, 'Dulcine', 'Ferdinand',
'Talby', TO_DATE('11/23/1961', 'MM/DD/YYYY'), 79000.00, 0.3, '09689209912', 'dtalbyt@gmail.com',
TO_DATE('12/15/1996', 'MM/DD/YYYY'),100);
insert into Employees (employee_id, first_name, middle_name, last_name, birth_date, salary,
commission_pct, phone_number, email, hire_date, department_id) values (130, 'Dalzayn', 'Ferrucio',
'Gabbie', TO_DATE('11/21/1966', 'MM/DD/YYYY'), 75000.00, 0.2, '0964153024', 'dltgb@gmail.com',
TO_DATE('02/25/1998', 'MM/DD/YYYY'),100);

## Table Name 2: Loan_Allocations Table (10 rows inserted)




**These SQL insert queries are used to add new records into the "Loan_Allocations" table with the following columns: loan_id, loan_category, loan_startpayment, loan_endpayment, loan_amount, interest_rate, and down_payment. Each insert statement is inserting a new row into the table with the corresponding values provided.**

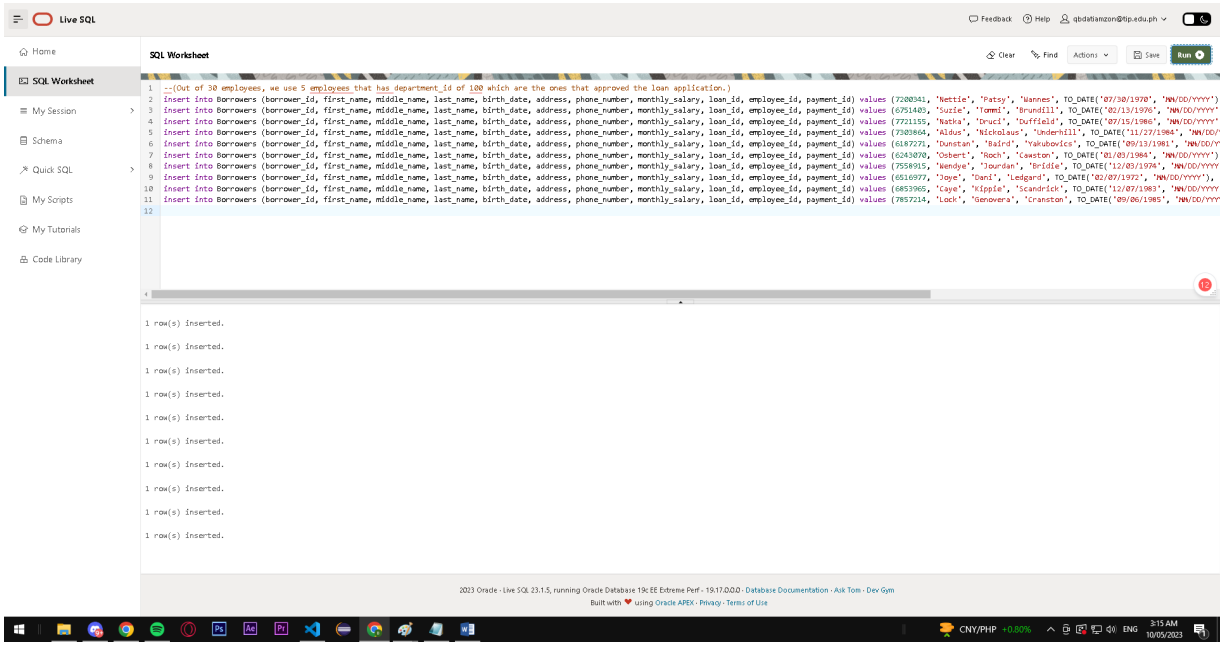
- **The "Loan_Allocations" table is used to store information about loans that have been allocated to borrowers. This table typically includes columns such as loan ID, loan category, loan start and end dates, loan amount, interest rate, and down payment.**
- **To add new loan allocation records to the table, SQL insert queries are used. These queries specify the columns being inserted into (loan_id, loan_category, loan_startpayment, loan_endpayment, loan_amount, interest_rate, and down_payment) and the values to be inserted into each column for a new row.**
- **Each insert statement inserts a new row into the "Loan_Allocations" table with the corresponding values provided. This allows loan administrators to track loan allocations and manage payments over time.**

**Query for Inserting Loan Allocations data:**

insert into Loan_Allocations (loan_id, loan_category, loan_startpayment, loan_endpayment, loan_amount, interest_rate, down_payment) VALUES (3834054, 'Student', TO_DATE('12/22/2020', 'MM/DD/YYYY'), TO_DATE('12/22/2021', 'MM/DD/YYYY'), 250000.00, 0.07, 30000.00);

```
insert into Loan_Allocations (loan_id, loan_category, loan_startpayment, loan_endpayment,
loan_amount, interest_rate, down_payment) values (3104937, 'Student', TO_DATE('01/14/2020',
'MM/DD/YYYY'), TO_DATE('01/14/2021', 'MM/DD/YYYY'), 230000.00, 0.07, 26000.00);
insert into Loan_Allocations (loan_id, loan_category, loan_startpayment, loan_endpayment,
loan_amount, interest_rate, down_payment) values (3866302, 'Payday', TO_DATE('12/30/2019',
'MM/DD/YYYY'), TO_DATE('12/30/2020', 'MM/DD/YYYY'), 220000.00, 0.06, 25000.00);
insert into Loan_Allocations (loan_id, loan_category, loan_startpayment, loan_endpayment,
loan_amount, interest_rate, down_payment) values (3431586, 'Auto', TO_DATE('12/30/2018',
'MM/DD/YYYY'), TO_DATE('12/30/2019', 'MM/DD/YYYY'), 210000.00, 0.05, 24000.00);
insert into Loan_Allocations (loan_id, loan_category, loan_startpayment, loan_endpayment,
loan_amount, interest_rate, down_payment) values (2480497, 'Personal', TO_DATE('04/02/2018',
'MM/DD/YYYY'), TO_DATE('04/02/2019', 'MM/DD/YYYY'), 200000.00, 0.08, 23000.00);
insert into Loan_Allocations (loan_id, loan_category, loan_startpayment, loan_endpayment,
loan_amount, interest_rate, down_payment) values (4050243, 'Auto', TO_DATE('06/11/2017',
'MM/DD/YYYY'), TO_DATE('06/11/2018', 'MM/DD/YYYY'), 200000.00, 0.05, 23000.00);
insert into Loan_Allocations (loan_id, loan_category, loan_startpayment, loan_endpayment,
loan_amount, interest_rate, down_payment) values (3070934, 'Personal', TO_DATE('08/31/2017',
'MM/DD/YYYY'), TO_DATE('08/31/2018', 'MM/DD/YYYY'), 190000.00, 0.08, 22000.00);
insert into Loan_Allocations (loan_id, loan_category, loan_startpayment, loan_endpayment,
loan_amount, interest_rate, down_payment) values (2255547, 'Personal', TO_DATE('06/09/2016',
'MM/DD/YYYY'), TO_DATE('06/09/2017', 'MM/DD/YYYY'), 185000.00, 0.08, 21500.00);
insert into Loan_Allocations (loan_id, loan_category, loan_startpayment, loan_endpayment,
loan_amount, interest_rate, down_payment) values (2029575, 'Payday', TO_DATE('02/22/2016',
'MM/DD/YYYY'), TO_DATE('02/22/2017', 'MM/DD/YYYY'), 160000.00, 0.06, 20000.00);
insert into Loan_Allocations (loan_id, loan_category, loan_startpayment, loan_endpayment,
loan_amount, interest_rate, down_payment) values (4078770, 'Personal', TO_DATE('07/01/2015',
'MM/DD/YYYY'),  TO_DATE('07/01/2016', 'MM/DD/YYYY'), 150000.00, 0.08, 19000.00);
```

## Table Name 3: Borrows Table (10 rows inserted)



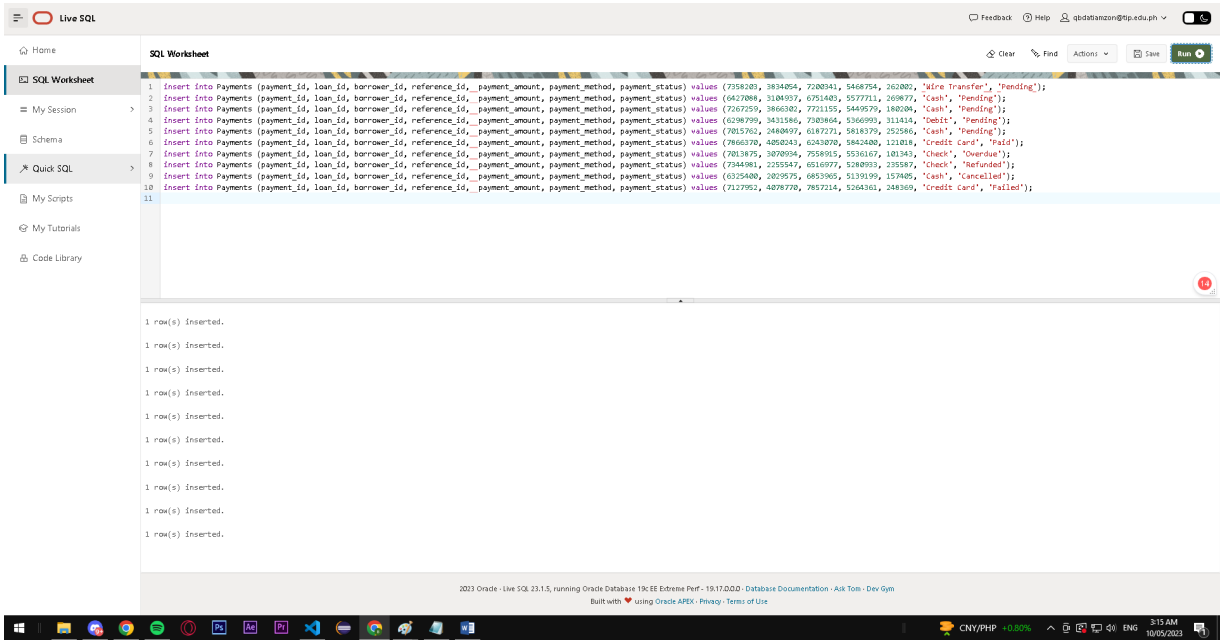

These are SQL INSERT queries that insert data into a table named "Borrowers". The table has 10 columns, namely borrower_id, first_name, middle_name, last_name, birth_date, address, phone_number, monthly_salary, loan_id, employee_id, and payment_id.

- The borrower table stores information about each borrower who applies for a loan, including their unique borrower ID, name, birth date, address, phone number, and monthly salary. This table is used to track borrower information and ensure that loans are only granted to eligible borrowers.
- The loan table stores information about each loan that is granted to a borrower, including the loan ID, borrower ID, employee ID (who approved the loan), and any associated payments. This table is used to track loan details and ensure that loans are properly approved and managed.
- The payment table stores information about each payment made towards a loan, including the payment ID, loan ID, and amount paid. This table is used to track payments and ensure that borrowers are making payments on time.
- The employee table stores information about each employee who works in the loan management system, including their unique employee ID, name, and any associated loans they have approved. This table is used to track employee information and ensure that loans are properly approved and managed.

**Query for Inserting datafor Borrows Table:**

```
insert into Borrowers (borrower_id, first_name, middle_name, last_name, birth_date, address,
phone_number, monthly_salary, loan_id, employee_id, payment_id) values (7200341, 'Nettie', 'Patsy',
'Wannes', TO_DATE('07/30/1970', 'MM/DD/YYYY'), '0431 Summit Pass, Cubao', '09439846057',
108000.00, 3834054, 125, 7358203);
insert into Borrowers (borrower_id, first_name, middle_name, last_name, birth_date, address,
phone_number, monthly_salary, loan_id, employee_id, payment_id) values (6751403, 'Suzie', 'Tommi',
'Brundill', TO_DATE('02/13/1976', 'MM/DD/YYYY'), '5250 Morning Hill, Rizal', '09028891172', 97000.00,
3104937, 125, 6427088);
insert into Borrowers (borrower_id, first_name, middle_name, last_name, birth_date, address,
phone_number, monthly_salary, loan_id, employee_id, payment_id) values (7721155, 'Natka', 'Druci',
'Duffield', TO_DATE('07/15/1986', 'MM/DD/YYYY'), '5766 Coleman Circle, Quezon', '09794706307',
95000.00, 3866302, 125, 7267259);
insert into Borrowers (borrower_id, first_name, middle_name, last_name, birth_date, address,
phone_number, monthly_salary, loan_id, employee_id, payment_id) values (7303864, 'Aldus',
'Nickolaus', 'Underhill', TO_DATE('11/27/1984', 'MM/DD/YYYY'), '65675 Graceland Lane, Rizal',
'09272647794', 94500.00, 3431586, 126, 6298799);
insert into Borrowers (borrower_id, first_name, middle_name, last_name, birth_date, address,
phone_number, monthly_salary, loan_id, employee_id, payment_id) values (6187271, 'Dunstan', 'Baird',
'Yakubovics', TO_DATE('09/13/1981', 'MM/DD/YYYY'), '8002 Larry Avenue, Makati', '09460042009',
93000.00, 2480497, 126, 7015762);
insert into Borrowers (borrower_id, first_name, middle_name, last_name, birth_date, address,
phone_number, monthly_salary, loan_id, employee_id, payment_id) values (6243070, 'Osbert', 'Roch',
'Cawston', TO_DATE('01/03/1984', 'MM/DD/YYYY'), '74 Merrick Center, Taguig', '09825837467',
92000.00, 4050243, 126, 7866370);
insert into Borrowers (borrower_id, first_name, middle_name, last_name, birth_date, address,
phone_number, monthly_salary, loan_id, employee_id, payment_id) values (7558915, 'Wendye',
'Jourdan', 'Bridie', TO_DATE('12/03/1974', 'MM/DD/YYYY'), '7 Vahlen Center, Pasig', '09765126604',
91000.00, 3070934, 127, 7013875);
insert into Borrowers (borrower_id, first_name, middle_name, last_name, birth_date, address,
phone_number, monthly_salary, loan_id, employee_id, payment_id) values (6516977, 'Joye', 'Dani',
'Ledgard', TO_DATE('02/07/1972', 'MM/DD/YYYY'), '3 Parkside Way, marikina', '09930813959',
90000.00, 2255547, 128, 7344981);
insert into Borrowers (borrower_id, first_name, middle_name, last_name, birth_date, address,
phone_number, monthly_salary, loan_id, employee_id, payment_id) values (6853965, 'Caye', 'Kippie',
'Scandrick', TO_DATE('12/07/1983', 'MM/DD/YYYY'), '45 Riverside Trail, Rizal', '09484816220',
87000.00, 2029575, 129, 6325400);
insert into Borrowers (borrower_id, first_name, middle_name, last_name, birth_date, address,
phone_number, monthly_salary, loan_id, employee_id, payment_id) values (7857214, 'Lock',
'Genovera', 'Cranston', TO_DATE('09/06/1985', 'MM/DD/YYYY'), '3464 Rieder Crossing, Pasig',
'09831851385', 85000.00, 4078770, 130, 7127952);
```

## Table Name 4: Payments Table (10 rows inserted)




These are SQL queries to insert data into the Payments table. Each query inserts a single row into the table, with the specified values for the columns. Here's a breakdown of what each column represents:

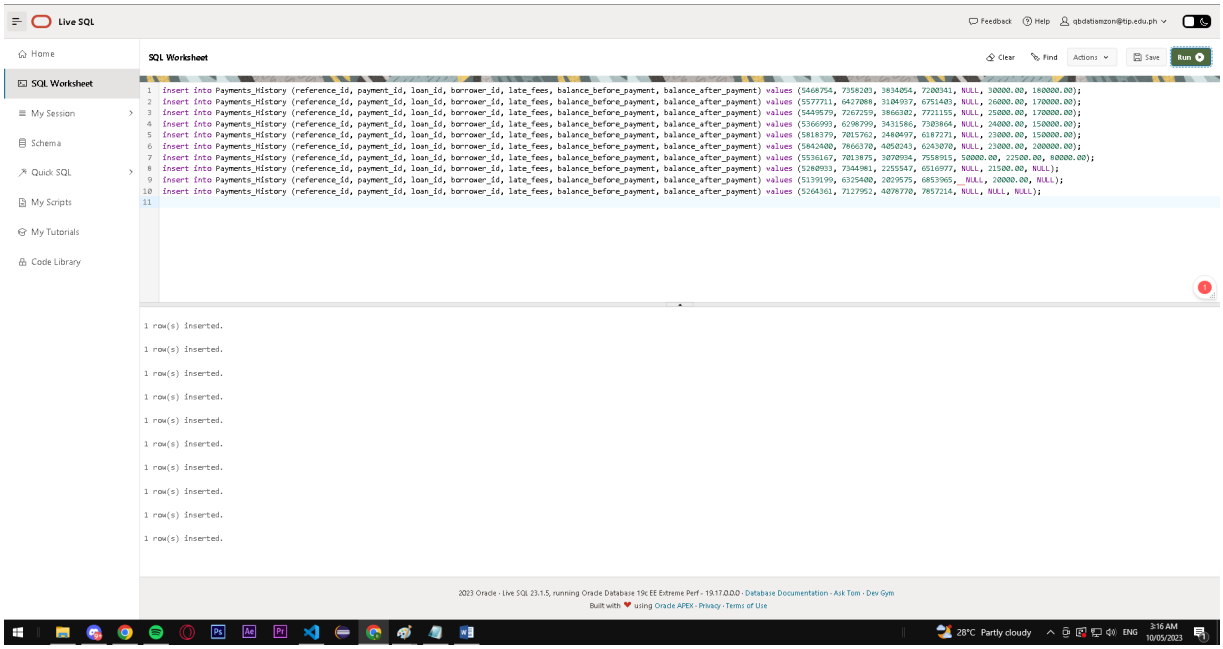
- payment_id: a unique identifier for the payment being made.
- loan_id: the ID of the loan associated with this payment.
- borrower_id: the ID of the borrower making the payment.
- reference_id: an ID or reference number associated with the payment (e.g. an invoice number).
- payment_amount: the amount of the payment, in the currency of the loan.
- payment_method: the method used to make the payment (e.g. wire transfer, cash, debit, credit card, check).
- payment_status: the current status of the payment (e.g. pending, paid, overdue, refunded, canceled, failed).

So, each of these queries is inserting a payment into the Payments table with a unique payment_id and the specified values for the other columns.

**Query for Inserting Data in Payments Table:**

```
insert into Payments (payment_id, loan_id, borrower_id, reference_id,  payment_amount, payment_method, payment_status) values (7358203, 3834054, 7200341, 5468754, 262002, 'Wire Transfer', 'Pending');
insert into Payments (payment_id, loan_id, borrower_id, reference_id,  payment_amount, payment_method, payment_status) values (6427088, 3104937, 6751403, 5577711, 269877, 'Cash', 'Pending');
insert into Payments (payment_id, loan_id, borrower_id, reference_id,  payment_amount, payment_method, payment_status) values (7267259, 3866302, 7721155, 5449579, 180204, 'Cash', 'Pending');
insert into Payments (payment_id, loan_id, borrower_id, reference_id,  payment_amount, payment_method, payment_status) values (6298799, 3431586, 7303864, 5366993, 311414, 'Debit', 'Pending');
insert into Payments (payment_id, loan_id, borrower_id, reference_id,  payment_amount, payment_method, payment_status) values (7015762, 2480497, 6187271, 5818379, 252586, 'Cash', 'Pending');
insert into Payments (payment_id, loan_id, borrower_id, reference_id,  payment_amount, payment_method, payment_status) values (7866370, 4050243, 6243070, 5842400, 121018, 'Credit Card', 'Paid');
insert into Payments (payment_id, loan_id, borrower_id, reference_id,  payment_amount, payment_method, payment_status) values (7013875, 3070934, 7558915, 5536167, 101343, 'Check', 'Overdue');
insert into Payments (payment_id, loan_id, borrower_id, reference_id,  payment_amount, payment_method, payment_status) values (7344981, 2255547, 6516977, 5280933, 235587, 'Check', 'Refunded');
insert into Payments (payment_id, loan_id, borrower_id, reference_id,  payment_amount, payment_method, payment_status) values (6325400, 2029575, 6853965, 5139199, 157405, 'Cash', 'Cancelled');
insert into Payments (payment_id, loan_id, borrower_id, reference_id,  payment_amount, payment_method, payment_status) values (7127952, 4078770, 7857214, 5264361, 248369, 'Credit Card', 'Failed');
```

## Table Name 5: Payments_History Table (10 rows inserted)




These SQL queries are inserting rows of data into a table called "Payments_History". The table has columns for "reference_id", "payment_id", "loan_id", "borrower_id", "late_fees", "balance_before_payment", and "balance_after_payment".

- Payments_History table: is used to track the payment history of loans in the system.

Each row in the table represents a single payment made on a particular loan by a specific borrower.

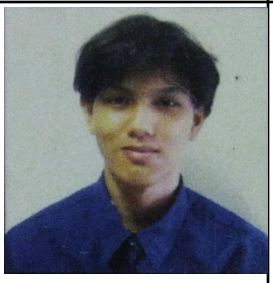
- reference_id: column is a unique identifier for the payment record.
- payment_id: column is a unique identifier for the payment transaction.
- loan_id: column identifies the loan that the payment was made on.
- borrower_id: column identifies the borrower who made the payment.
- late_fees: column stores any fees that were incurred due to late payment.
- balance_before_payment: column stores the outstanding balance on the loan before the payment was made.
- balance_after_payment: column stores the outstanding balance on the loan after the payment was made.

Inserting rows of data into the "Payments_History" table allows the system to keep track of loan payments and generate reports on payment history and outstanding balances.

**Query for Inserting data on payment history:**

```
insert into Payments_History (reference_id, payment_id, loan_id, borrower_id, late_fees, balance_before_payment, balance_after_payment) values (5468754, 7358203, 3834054, 7200341, NULL, 30000.00, 180000.00);
insert into Payments_History (reference_id, payment_id, loan_id, borrower_id, late_fees, balance_before_payment, balance_after_payment) values (5577711, 6427088, 3104937, 6751403, NULL, 26000.00, 170000.00);
insert into Payments_History (reference_id, payment_id, loan_id, borrower_id, late_fees, balance_before_payment, balance_after_payment) values (5449579, 7267259, 3866302, 7721155, NULL, 25000.00, 170000.00);
insert into Payments_History (reference_id, payment_id, loan_id, borrower_id, late_fees, balance_before_payment, balance_after_payment) values (5366993, 6298799, 3431586, 7303864, NULL, 24000.00, 150000.00);
insert into Payments_History (reference_id, payment_id, loan_id, borrower_id, late_fees, balance_before_payment, balance_after_payment) values (5818379, 7015762, 2480497, 6187271, NULL, 23000.00, 150000.00);
insert into Payments_History (reference_id, payment_id, loan_id, borrower_id, late_fees, balance_before_payment, balance_after_payment) values (5842400, 7866370, 4050243, 6243070, NULL, 23000.00, 200000.00);
insert into Payments_History (reference_id, payment_id, loan_id, borrower_id, late_fees, balance_before_payment, balance_after_payment) values (5536167, 7013875, 3070934, 7558915, 50000.00, 22500.00, 80000.00);
insert into Payments_History (reference_id, payment_id, loan_id, borrower_id, late_fees, balance_before_payment, balance_after_payment) values (5280933, 7344981, 2255547, 6516977, NULL, 21500.00, NULL);
insert into Payments_History (reference_id, payment_id, loan_id, borrower_id, late_fees, balance_before_payment, balance_after_payment) values (5139199, 6325400, 2029575, 6853965, NULL, 20000.00, NULL);
insert into Payments_History (reference_id, payment_id, loan_id, borrower_id, late_fees, balance_before_payment, balance_after_payment) values (5264361, 7127952, 4078770, 7857214, NULL, NULL, NULL);
```

**Summary of Assigned Tasks**

| Name (SN, FN, MI.) | Picture (1x1 formal attire) | Detailed Contributions/Assigned Tasks: |
|---|---|---|
| Leader's Name:<br>Tiamzon, Bryan Dominick A. |  | Insertion of Data, Input values (every table), checking, documentation |
| Member 1:<br>Faurillo, Ymwnl Jan |  | Created table (every table) |
| Member 2:<br>Ureta, Juster S. |  | Documentation, Data input value (payments_history, payments) |

**Honor Pledge:** "We affirm that we have not given or received any unauthorized help on this assignment, and that this work is our own"