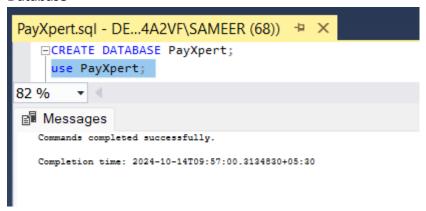
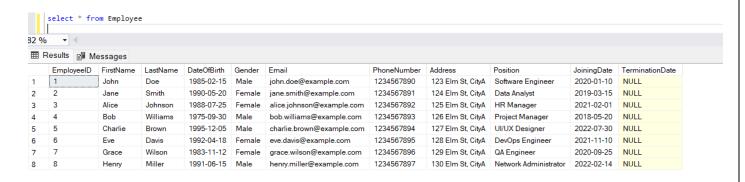


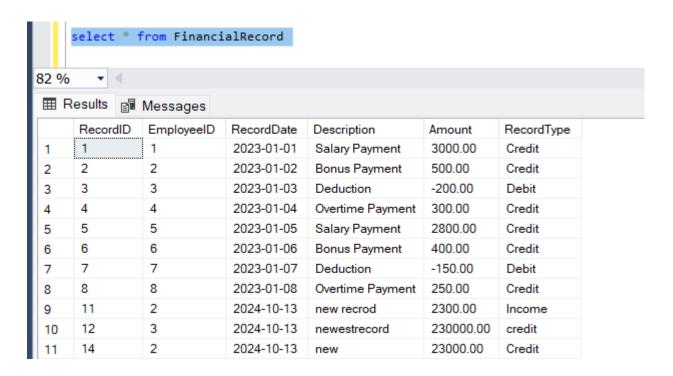
#### **Database**



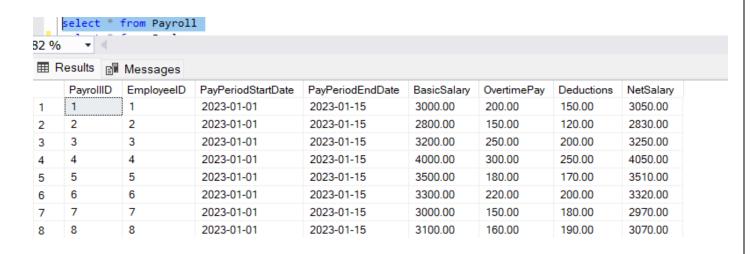
#### **Employee table**



#### **Fiancial Record**



#### Payroll



#### Tax



⊞R	esults	Messages			
	TaxID	EmployeeID	TaxYear	TaxableIncome	TaxAmount
1	1	1	2022	25000.00	3000.00
2	2	2	2022	24000.00	2900.00
3	3	3	2022	26000.00	3200.00
4	4	4	2022	30000.00	4000.00
5	5	5	2022	28000.00	3500.00
6	6	6	2022	27000.00	3400.00
7	7	7	2022	25000.00	3100.00
8	8	8	2022	29000.00	3700.00

#### **Functionality**

### **Employee**

#### Add employee

```
--- Employee Management ---

    Add Employee

2. Update Employee
3. Remove Employee
4. Get Employee by ID
View All Employees
6. Back to Main Menu
Select an option: 1
Enter first name: sameer
Enter last name: yadav
Enter date of birth (YYYY-MM-DD): 2002-01-01
Enter gender: male
Enter email: sameer@gmail.com
Enter phone number: 9898343456
Enter address: 123, gzb
Enter position: dev
Enter joining date (YYYY-MM-DD): 2023-01-01
Employee added successfully.
Employee added successfully!
```

	EmployeeID	Firstiname	Lastiname	DateOfBirth	Gender	Email	Phoneinumber	Address	Position	JoiningDate	TerminationDate
1	1	John	Doe	1985-02-15	Male	john.doe@example.com	1234567890	123 Elm St, CityA	Software Engineer	2020-01-10	NULL
2	2	Jane	Smith	1990-05-20	Female	jane.smith@example.com	1234567891	124 Elm St, CityA	Data Analyst	2019-03-15	NULL
3	3	Alice	Johnson	1988-07-25	Female	alice.johnson@example.com	1234567892	125 Elm St, CityA	HR Manager	2021-02-01	NULL
4	4	Bob	Williams	1975-09-30	Male	bob.williams@example.com	1234567893	126 Elm St, CityA	Project Manager	2018-05-20	NULL
5	5	Charlie	Brown	1995-12-05	Male	charlie.brown@example.com	1234567894	127 Elm St, CityA	UI/UX Designer	2022-07-30	NULL
6	6	Eve	Davis	1992-04-18	Female	eve.davis@example.com	1234567895	128 Elm St, CityA	DevOps Engineer	2021-11-10	NULL
7	7	Grace	Wilson	1983-11-12	Female	grace.wilson@example.com	1234567896	129 Elm St, CityA	QA Engineer	2020-09-25	NULL
8	8	Henry	Miller	1991-06-15	Male	henry.miller@example.com	1234567897	130 Elm St, CityA	Network Administrator	2022-02-14	NULL
9	16	sameer	yadav	2002-01-01	male	sameer@gmail.com	9898343456	123, gzb	dev	2023-01-01	NULL



## Update employee

```
--- Employee Management ---
1. Add Employee
2. Update Employee
3. Remove Employee
4. Get Employee by ID
5. View All Employees
6. Back to Main Menu
Select an option: 2
Enter Employee ID to update: 16
Updating information for sameer yadav
First Name [sameer]:
Last Name [yadav]: sharma
Email [sameer@gmail.com]: sameer@98.rediff.com
Phone [9898343456]:
Address [123, gzb]: moradabad
Position [dev]:
Termination Date [None]:
Employee updated successfully.
Employee updated successfully!
```

	EmployeeID	FirstName	LastName	DateOfBirth	Gender	Email	PhoneNumber	Address	Position	JoiningDate	TerminationDate
1	1	John	Doe	1985-02-15	Male	john.doe@example.com	1234567890	123 Elm St, CityA	Software Engineer	2020-01-10	NULL
2	2	Jane	Smith	1990-05-20	Female	jane.smith@example.com	1234567891	124 Elm St, CityA	Data Analyst	2019-03-15	NULL
3	3	Alice	Johnson	1988-07-25	Female	alice.johnson@example.com	1234567892	125 Elm St, CityA	HR Manager	2021-02-01	NULL
4	4	Bob	Williams	1975-09-30	Male	bob.williams@example.com	1234567893	126 Elm St, CityA	Project Manager	2018-05-20	NULL
5	5	Charlie	Brown	1995-12-05	Male	charlie.brown@example.com	1234567894	127 Elm St, CityA	UI/UX Designer	2022-07-30	NULL
6	6	Eve	Davis	1992-04-18	Female	eve.davis@example.com	1234567895	128 Elm St, CityA	DevOps Engineer	2021-11-10	NULL
7	7	Grace	Wilson	1983-11-12	Female	grace.wilson@example.com	1234567896	129 Elm St, CityA	QA Engineer	2020-09-25	NULL
8	8	Henry	Miller	1991-06-15	Male	henry.miller@example.com	1234567897	130 Elm St, CityA	Network Administrator	2022-02-14	NULL
9	16	sameer	sharma	2002-01-01	male	sameer@98.rediff.com	9898343456	moradabad	dev	2023-01-01	NULL



### Remove Employee

```
--- Employee Management ---
1. Add Employee
2. Update Employee
3. Remove Employee
4. Get Employee by ID
5. View All Employees
6. Back to Main Menu
Select an option: 3
Enter Employee ID to remove: 16
Are you sure you want to remove Employee ID 16? (y/n): y
Employee ID 16 and their associated records removed successfully.
Employee ID 16 has been removed.
```

	EmployeeID	FirstName	LastName	DateOfBirth	Gender	Email	PhoneNumber	Address	Position	JoiningDate	TerminationDate
1	1	John	Doe	1985-02-15	Male	john.doe@example.com	1234567890	123 Elm St, CityA	Software Engineer	2020-01-10	NULL
2	2	Jane	Smith	1990-05-20	Female	jane.smith@example.com	1234567891	124 Elm St, CityA	Data Analyst	2019-03-15	NULL
3	3	Alice	Johnson	1988-07-25	Female	alice.johnson@example.com	1234567892	125 Elm St, CityA	HR Manager	2021-02-01	NULL
4	4	Bob	Williams	1975-09-30	Male	bob.williams@example.com	1234567893	126 Elm St, CityA	Project Manager	2018-05-20	NULL
5	5	Charlie	Brown	1995-12-05	Male	charlie.brown@example.com	1234567894	127 Elm St, CityA	UI/UX Designer	2022-07-30	NULL
6	6	Eve	Davis	1992-04-18	Female	eve.davis@example.com	1234567895	128 Elm St, CityA	DevOps Engineer	2021-11-10	NULL
7	7	Grace	Wilson	1983-11-12	Female	grace.wilson@example.com	1234567896	129 Elm St, CityA	QA Engineer	2020-09-25	NULL
8	8	Henry	Miller	1991-06-15	Male	henry.miller@example.com	1234567897	130 Elm St, CityA	Network Administrator	2022-02-14	NULL



# Employee by EmployeeID

```
--- Employee Management ---

1. Add Employee

2. Update Employee

3. Remove Employee

4. Get Employee y ID

5. View All Employees

6. Back to Main Menu

5elect an option: 4

Enter Employee ID: 7

Employee details: {'employee_id': 7, 'first_name': 'Grace', 'last_name': 'Wilson', 'date_of_birth': '1983-11-12', 'gender': 'Female', 'email': 'grace.wilson@example.com', 'phone_number': '1234567896', 'address': '129 Elm St, CityA', 'position': 'QA Engineer', 'joining_date': '2020-09-25', 'termination_date': None}
```

	EmployeeID	FirstName	LastName	DateOfBirth	Gender	Email	PhoneNumber	Address	Position	JoiningDate	TerminationDate
1	1	John	Doe	1985-02-15	Male	john.doe@example.com	1234567890	123 Elm St, CityA	Software Engineer	2020-01-10	NULL
2	2	Jane	Smith	1990-05-20	Female	jane.smith@example.com	1234567891	124 Elm St, CityA	Data Analyst	2019-03-15	NULL
3	3	Alice	Johnson	1988-07-25	Female	alice.johnson@example.com	1234567892	125 Elm St, CityA	HR Manager	2021-02-01	NULL
4	4	Bob	Williams	1975-09-30	Male	bob.williams@example.com	1234567893	126 Elm St, CityA	Project Manager	2018-05-20	NULL
5	5	Charlie	Brown	1995-12-05	Male	charlie.brown@example.com	1234567894	127 Elm St, CityA	UI/UX Designer	2022-07-30	NULL
6	6	Eve	Davis	1992-04-18	Female	eve.davis@example.com	1234567895	128 Elm St, CityA	DevOps Engineer	2021-11-10	NULL
7	7	Grace	Wilson	1983-11-12	Female	grace.wilson@example.com	1234567896	129 Elm St, CityA	QA Engineer	2020-09-25	NULL
8	8	Henry	Miller	1991-06-15	Male	henry.miller@example.com	1234567897	130 Elm St, CityA	Network Administrator	2022-02-14	NULL

## Get All Employee

```
--- Employee Management ---
1. Add Employee
2. Update Employee
4. Get Employee by ID
5. View All Employees
6. Back to Main Menu
Select an option: 5
List of All Employees:
Employee ID: 1
Name: John Doe
Position: Software Engineer
Email: john.doe@example.com
Phone: 1234567890
Address: 123 Elm St, CityA
Joining Date: 2020-01-10
Termination Date: None
Employee ID: 2
Name: Jane Smith
Position: Data Analyst
Email: jane.smith@example.com
Phone: 1234567891
Address: 124 Elm St, CityA
Joining Date: 2019-03-15
Termination Date: None
Employee ID: 3
Name: Alice Johnson
Position: HR Manager
Email: alice.johnson@example.com
Phone: 1234567892
Address: 125 Elm St, CityA
Joining Date: 2021-02-01
Termination Date: None
Employee ID: 4
Name: Bob Williams
Position: Project Manager
Email: bob.williams@example.com
Phone: 1234567893
Address: 126 Elm St, CityA
Joining Date: 2018-05-20
Termination Date: None
Employee ID: 5
Name: Charlie Brown
Position: UI/UX Designer
Email: charlie.brown@example.com
Phone: 1234567894
Address: 127 Elm St, CityA
Joining Date: 2022-07-30
Termination Date: None
Employee ID: 6
Name: Eve Davis
Position: DevOps Engineer
Email: eve.davis@example.com
Phone: 1234567895
Address: 128 Elm St, CityA
Joining Date: 2021-11-10
Termination Date: None
Employee ID: 7
Name: Grace Wilson
Position: QA Engineer
Email: grace.wilson@example.com
Phone: 1234567896
Address: 129 Elm St, CityA
```

#### **Payroll**

#### Generate payroll

```
--- Payroll Processing ---

    Generate Payroll

2. Get Payroll by Payroll ID
3. Get Payrolls for Employee
4. Get Payrolls for period
5. Back to Main Menu
Select an option: 1
Enter Employee ID: 3
Enter starting date (YYYY-MM-DD): 2023-01-01
Enter starting date (YYYY-MM-DD): 2023-01-14
Payroll generated successfully for employee ID 3
Payroll generated successfully for Employee ID 3
Payroll Details:
  Pay Period: 2023-01-01 00:00:00 to 2023-01-14 00:00:00
  Basic Salary: 3200.00
  Overtime Pay: 250.00
  Deductions: 200.00
  Total Amount to be Paid: 3250.00
Payroll generated successfully. True
```

### Payroll by PayrolId

```
--- Payroll Processing ---
L. Generate Payroll
L. Generate Payroll by Payroll ID
L. Get Payroll by Payroll ID
L. Get Payrolls for Employee
L. Get Payrolls for penjod
E. Get Varolls for penjod
E. Book to Main Menu
Select an option: 2
inter Payroll ID: 17
Payroll Details: ('payroll_id': 17, 'cmployee_id': 3, 'pay_period_start_date': '2023-01-01', 'pay_period_end_date': '2023-01-14', 'basic_salary': Decimal('3200.00'), 'overtime_pay': Decimal('250.00'), 'deductions': Decimal('200.00'), 'net_salary': Decimal('250.00')
```

### Payroll by employeeid

```
--- Payroll Processing ---

1. Generate Payroll

2. Get Payroll by Payroll ID

3. Get Payrolls for Employee

4. Get Payrolls for period

5. Back to Main Menu

Select an option: 3

Enter Employee ID: 5

Payroll ID: 5, Amount: 3510.00
```

### Payrolls for period

```
--- Payroll Processing ---
1. Generate Payroll
2. Get Payroll by Payroll ID
3. Get Payrolls for Employee
4. Get Payrolls for period
5. Back to Main Menu
Select an option: 4
Enter Start Date (YYYY-MM-DD): 2023-01-01
Enter End Date (YYYY-MM-DD): 2024-01-01
Payroll ID: 1, Employee ID: 1, Amount: 3050.00
Payroll ID: 2, Employee ID: 2, Amount: 2830.00
Payroll ID: 3, Employee ID: 3, Amount: 3250.00
Payroll ID: 4, Employee ID: 4, Amount: 4050.00
Payroll ID: 5, Employee ID: 5, Amount: 3510.00
Payroll ID: 6, Employee ID: 6, Amount: 3320.00
Payroll ID: 7, Employee ID: 7, Amount: 2970.00
Payroll ID: 8, Employee ID: 8, Amount: 3070.00
Payroll ID: 11, Employee ID: 2, Amount: 2830.00
Payroll ID: 12, Employee ID: 8, Amount: 3070.00
Payroll ID: 13, Employee ID: 3, Amount: 3250.00
Payroll ID: 14, Employee ID: 2, Amount: 2830.00
Payroll ID: 16, Employee ID: 3, Amount: 3250.00
Payroll ID: 17, Employee ID: 3, Amount: 3250.00
```

#### Tax

## Tax for Employee

```
Tax Calculation Menu:
1. Calculate Tax for Employee
2. Get Tax By ID
3. Get Taxes for Employee
4. Get Taxes for Year
5. Exit
Select an option: 1
Enter Employee ID: 4
Enter Tax Year: 2023
Calculated Tax: 600.00
```

## Tax by TaxID

```
Tax Calculation Menu:
1. Calculate Tax for Employee
2. Get Tax By ID
3. Get Taxes for Employee
4. Get Taxes for Year
5. Exit
Select an option: 2
Enter Tax ID: 5
Tax Details: {'tax_id': 5, 'employee_id': 5, 'tax_year': 2022, 'amount': Decimal('28000.00')}
```

### Tax by Employee Id

```
Tax Calculation Menu:

1. Calculate Tax for Employee

2. Get Tax By ID

3. Get Taxes for Employee

4. Get Taxes for Year

5. Exit

Select an option: 3

Enter Employee ID: 5

Taxes for Employee ID 5: [{'tax_id': 5, 'employee_id': 5, 'tax_year': 2022, 'amount': Decimal('28000.00')}]
```

Tax for year

#### Financial record

#### Add financial record

```
Financial Record Menu:

1. Add Financial Record

2. Get Financial Record By ID

3. Get Financial Records For Employee

4. Get Financial Records For Date

5. Exit

Select an option: 1

Enter Employee ID: 2

Enter Description: updated one
Enter Amount: 2300

Enter Record Type (Income/Expense): Income
Financial record added successfully.
```

## Financial record by RecordID

```
Financial Record Menu:

1. Add Financial Record

2. Get Financial Record By ID

3. Get Financial Records For Employee

4. Get Financial Records For Date

5. Exit

5. Exit

5. Exit

5. Exit

6. Select an option: 2

Enter Record ID: 4

Financial Record: {'record_id': 4, 'employee_id': 4, 'record_date': '2023-01-04', 'description': 'Overtime Payment', 'amount': Decimal('300.00'), 'record_type': 'Credit'}
```

### Financial record by EmployeeID

```
Financial Record Menu:

1. Add Financial Record & Financial Record by ID

3. Get Financial Record by ID

3. Get Financial Records For Employee

4. Get Financial Records For Employee

5. Exit

5. Exit

5. Exit

5. Exit

6. Exit

7. Exit

8. Exit

9. Exit
```

# Financial record by Date

```
Financial Record Menu:

1. Add Financial Record By ID

2. Get Financial Records For Employee

4. Get Financial Records For Date

5. Exit

Select an option: 4

Enter Record Date (YYYY-MM-DD): 2023-01-01

Financial Records For Date 2023-01-01: [{'record_id': 1, 'record_date': '2023-01-01', 'description': 'Salary Payment', 'amount': Decimal('3000.00'), 'record_type': 'Credit')]
```