

Payroll Management System

PayXpert

Database

PayXpert.sql - DE...4A2VF\SAMEER (68))

```
CREATE DATABASE PayXpert;  
use PayXpert;
```

82 %

Messages

Commands completed successfully.

Completion time: 2024-10-14T09:57:00.3134830+05:30

Employee table

select * from Employee

32 %

Results Messages

	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

Financial Record

```
select * from FinancialRecord
```

82 %

Results Messages

	RecordID	EmployeeID	RecordDate	Description	Amount	RecordType
1	1	1	2023-01-01	Salary Payment	3000.00	Credit
2	2	2	2023-01-02	Bonus Payment	500.00	Credit
3	3	3	2023-01-03	Deduction	-200.00	Debit
4	4	4	2023-01-04	Overtime Payment	300.00	Credit
5	5	5	2023-01-05	Salary Payment	2800.00	Credit
6	6	6	2023-01-06	Bonus Payment	400.00	Credit
7	7	7	2023-01-07	Deduction	-150.00	Debit
8	8	8	2023-01-08	Overtime Payment	250.00	Credit
9	11	2	2024-10-13	new recrod	2300.00	Income
10	12	3	2024-10-13	newestrecord	230000.00	credit
11	14	2	2024-10-13	new	23000.00	Credit

Payroll

```
select * from Payroll
```

32 %

Results Messages

	PayrollID	EmployeeID	PayPeriodStartDate	PayPeriodEndDate	BasicSalary	OvertimePay	Deductions	NetSalary
1	1	1	2023-01-01	2023-01-15	3000.00	200.00	150.00	3050.00
2	2	2	2023-01-01	2023-01-15	2800.00	150.00	120.00	2830.00
3	3	3	2023-01-01	2023-01-15	3200.00	250.00	200.00	3250.00
4	4	4	2023-01-01	2023-01-15	4000.00	300.00	250.00	4050.00
5	5	5	2023-01-01	2023-01-15	3500.00	180.00	170.00	3510.00
6	6	6	2023-01-01	2023-01-15	3300.00	220.00	200.00	3320.00
7	7	7	2023-01-01	2023-01-15	3000.00	150.00	180.00	2970.00
8	8	8	2023-01-01	2023-01-15	3100.00	160.00	190.00	3070.00

Tax

```
select * from Tax
```

82 %

Results 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 ---
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: 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	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	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 by ID
5. View All Employees
6. Back to Main Menu
Select 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
 3. Remove 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 ---
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: 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 PayrollId

```
--- 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: 2
Enter Payroll ID: 17
Payroll Details: {'payroll_id': 17, 'employee_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('3250.00')}
```

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

```
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: 4
Enter Tax Year: 2022
Taxes for Year 2022: [{"tax_id": 1, "employee_id": 1, "tax_year": 2022, "amount": Decimal('25000.00')}, {"tax_id": 2, "employee_id": 2, "tax_year": 2022, "amount": Decimal('24000.00')}, {"tax_id": 3, "employee_id": 3, "tax_year": 2022, "amount": Decimal('26000.00')}, {"tax_id": 4, "employee_id": 4, "tax_year": 2022, "amount": Decimal('30000.00')}, {"tax_id": 5, "employee_id": 5, "tax_year": 2022, "amount": Decimal('28000.00')}, {"tax_id": 6, "employee_id": 6, "tax_year": 2022, "amount": Decimal('27000.00')}, {"tax_id": 7, "employee_id": 7, "tax_year": 2022, "amount": Decimal('25000.00')}, {"tax_id": 8, "employee_id": 8, "tax_year": 2022, "amount": Decimal('29000.00')}]
```

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
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
2. Get Financial Record By ID
3. Get Financial Records For Employee
4. Get Financial Records For Date
5. Exit
Select an option: 3
Enter Employee ID: 2
Financial Records for Employee ID 2: [{'record_id': 2, 'employee_id': 2, 'record_date': '2023-01-02', 'description': 'Bonus Payment', 'amount': Decimal('500.00'), 'record_type': 'Credit'}, {'record_id': 11, 'employee_id': 2, 'record_date': '2024-10-13', 'description': 'new record', 'amount': Decimal('2300.00'), 'record_type': 'Income'}, {'record_id': 14, 'employee_id': 2, 'record_date': '2024-10-13', 'description': 'new', 'amount': Decimal('23000.00'), 'record_type': 'Credit'}, {'record_id': 15, 'employee_id': 2, 'record_date': '2024-10-13', 'description': 'queue', 'amount': Decimal('123.00'), 'record_type': 'lojque'}, {'record_id': 17, 'employee_id': 2, 'record_date': '2024-10-14', 'description': 'updated one', 'amount': Decimal('2300.00'), 'record_type': 'Income'}]
```

Financial record by Date

```
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: 4
Enter Record Date (YYYY-MM-DD): 2023-01-01
Financial Records for Date 2023-01-01: [{"record_id": 1, "employee_id": 1, "record_date": "2023-01-01", "description": "Salary Payment", "amount": Decimal("3000.00"), "record_type": "Credit"}]
```