

PayXpert

The Payroll Management System

A) Creating database PayXpert:

```
create database PayXpert;
```

B) Creating and inserting values in Employee table in SQL Schema:

```
create table employee(  
    eid int primary key,  
    f_name varchar(30),  
    l_name varchar(30),  
    dob date,  
    gender varchar(15),  
    email varchar(50),  
    phone_num varchar(15),  
    address varchar(50),  
    position varchar(50),  
    doj date,  
    dol date  
);
```

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
eid	int	NO	PRI	NULL	
f_name	varchar(30)	YES		NULL	
l_name	varchar(30)	YES		NULL	
dob	date	YES		NULL	
gender	varchar(15)	YES		NULL	
email	varchar(50)	YES		NULL	
phone_num	varchar(15)	YES		NULL	
address	varchar(50)	YES		NULL	
position	varchar(50)	YES		NULL	
doj	date	YES		NULL	
dol	date	YES		NULL	

11 rows in set (0.01 sec)

```
insert into employee
```

```
(employee_id,f_name,l_name,dob,gender,email,phone_num,address,position,doj) values
```

```
(1,'Abdul','Rahuman','2003-04-09','Male','rahuman9apr@gmail.com','9870098767','Tenkasi','Software Developer','2024-07-01'),
```

```
(2,'Banu','Priya','2002-11-02','Female','banumsss@gmail.com','9876545678','Karur','FrontEnd Developer','2024-05-01'),
```

```
(3,'Deebhika','Sree','2003-05-15','Female','deebhika@gmail.com','8123454321','Vellakovil','FullStack Developer','2024-03-01'),
```

```
(4,'Hari','Priya','2002-09-13','Female','hkpriya@gmail.com','6379794567','Dharapuram','Software Developer','2024-04-01'),
```

```
(5,'Isai','Vani','2002-06-14','Female','mozhiisai@gmail.com','7865983445','Vellakovil','FrontEnd Developer','2024-01-01'),
(6,'Joshva','Arockiaraj','2002-09-15','Male','josh@gmail.com','6765686964','Trichy','FullStack Developer','2024-02-01'),
(7,'Benedick','Raj','2002-06-19','Male','benraj@gmail.com','7879767574','Dharapuram','Software Developer','2024-01-15'),
(8,'Mansoor','Ali','2002-05-10','Male','mansoor@gmail.com','8283485683','Sivagiri','FrontEnd Developer','2024-08-01'),
(9,'Kural','Arasu','2003-07-18','Male','sarathy@gmail.com','7876659675','Kodaikanal','FullStack Developer','2024-03-21'),
(10,'Nithiya','Shree','2003-08-07','Female','nithiya@gmail.com','9879549393','Thennilai','Software Developer','2024-05-01');
```

```
mysql> select * from employee;
```

eid	f_name	l_name	dob	gender	email	phone_num	address	position	doj	doI
1	Abdul	Rahuman	2003-04-09	Male	rahuman9apr@gmail.com	9870098767	Tenkasi	Software Developer	2024-07-01	NULL
2	Banu	Priya	2002-11-02	Female	banumsss@gmail.com	9876545678	Karur	FrontEnd Developer	2024-05-01	NULL
3	Deebhika	Sree	2003-05-15	Female	deebhika@gmail.com	8123454321	Vellakovil	FullStack Developer	2024-03-01	NULL
4	Hari	Priya	2002-09-13	Female	hkpriya@gmail.com	6379794567	Dharapuram	Software Developer	2024-04-01	NULL
5	Isai	Vani	2002-06-14	Female	mozhiisai@gmail.com	7865983445	Vellakovil	FrontEnd Developer	2024-01-01	NULL
6	Joshva	Arockiaraj	2002-09-15	Male	josh@gmail.com	6765686964	Trichy	FullStack Developer	2024-02-01	NULL
7	Benedick	Raj	2002-06-19	Male	benraj@gmail.com	7879767574	Dharapuram	Software Developer	2024-01-15	NULL
8	Mansoor	Ali	2002-05-10	Male	mansoor@gmail.com	8283485683	Sivagiri	FrontEnd Developer	2024-08-01	NULL
9	Kural	Arasu	2003-07-18	Male	sarathy@gmail.com	7876659675	Kodaikanal	FullStack Developer	2024-03-21	NULL
10	Nithiya	Shree	2003-08-07	Female	nithiya@gmail.com	9879549393	Thennilai	Software Developer	2024-05-01	NULL

10 rows in set (0.01 sec)

C)Creating and inserting values in Payroll table in SQL Schema:

```
create table payroll(
    payroll_id int primary key,
    eid int,
    foreign key (eid) references employee(eid),
    PayPeriodStartDate date,
    PayPeriodEndDate date,
    basicsalary float,
    OvertimePay float,
    deductions float,
    Net_Sal float
);
```

```
mysql> desc payroll;
```

Field	Type	Null	Key	Default	Extra
payroll_id	int	NO	PRI	NULL	
eid	int	YES	MUL	NULL	
PayPeriodStartDate	date	YES		NULL	
PayPeriodEndDate	date	YES		NULL	
basicsalary	float	YES		NULL	
OvertimePay	float	YES		NULL	
deductions	float	YES		NULL	
Net_Sal	float	YES		NULL	

8 rows in set (0.00 sec)

```
insert into payroll values(101,1,'2024-07-01','2024-08-01',200000,100000,5000,295000),
(102,2,'2024-05-01','2024-08-01',500000,100000,50000,550000),
(103,3,'2024-03-01','2024-05-01',350000,115000,15000,450000),
(104,4,'2024-04-01','2024-06-01',800000,200000,50000,950000),
(105,5,'2024-01-01','2024-12-01',1000000,500000,200000,1300000),
```

```
(106,6,'2024-07-01','2024-08-01',200000,100000,5000,295000),
(107,7,'2024-05-01','2024-08-01',500000,100000,50000,550000),
(108,8,'2024-03-01','2024-05-01',350000,115000,15000,450000),
(109,9,'2024-04-01','2024-06-01',800000,200000,50000,950000),
(110,10,'2024-01-01','2024-12-01',1000000,500000,200000,1300000);
```

```
mysql> select * from payroll;
```

payroll_id	eid	PayPeriodStartDate	PayPeriodEndDate	basicsalary	OvertimePay	deductions	Net_Sal
101	1	2024-07-01	2024-08-01	200000	100000	5000	295000
102	2	2024-05-01	2024-08-01	500000	100000	50000	550000
103	3	2024-03-01	2024-05-01	350000	115000	15000	450000
104	4	2024-04-01	2024-06-01	800000	200000	50000	950000
105	5	2024-01-01	2024-12-01	1000000	500000	200000	1300000
106	6	2024-07-01	2024-08-01	200000	100000	5000	295000
107	7	2024-05-01	2024-08-01	500000	100000	50000	550000
108	8	2024-03-01	2024-05-01	350000	115000	15000	450000
109	9	2024-04-01	2024-06-01	800000	200000	50000	950000
110	10	2024-01-01	2024-12-01	1000000	500000	200000	1300000

```
10 rows in set (0.01 sec)
```

D)Creating and inserting values in Tax table in SQL Schema:

```
create table tax(
    tax_id int primary key,
    eid int,
    foreign key (eid) references employee(eid),
    tax_year year,
    taxable_income float,
    tax_amt float
);
```

```
mysql> desc tax;
```

Field	Type	Null	Key	Default	Extra
tax_id	int	NO	PRI	NULL	
eid	int	YES	MUL	NULL	
tax_year	year	YES		NULL	
taxable_income	float	YES		NULL	
tax_amt	float	YES		NULL	

```
5 rows in set (0.00 sec)
```

```
insert into tax values(1001,5,'2024',800000,100000),
(1002,4,'2024',500000,50000),
(1003,3,'2024',400000,45000),
(1004,2,'2024',300000,30000),
(1005,1,'2024',100000,10000),
(1006,10,'2024',800000,100000),
(1007,9,'2024',500000,50000),
(1008,8,'2024',400000,45000),
(1009,7,'2024',300000,30000),
(1010,6,'2024',100000,10000);
```

```
mysql> select * from tax;
```

tax_id	eid	tax_year	taxable_income	tax_amt
1001	5	2024	800000	100000
1002	4	2024	500000	50000
1003	3	2024	400000	45000
1004	2	2024	300000	30000
1005	1	2024	100000	10000
1006	10	2024	800000	100000
1007	9	2024	500000	50000
1008	8	2024	400000	45000
1009	7	2024	300000	30000
1010	6	2024	100000	10000

```
10 rows in set (0.00 sec)
```

E)Creating and inserting values in FinancialRecord table in SQL Schema:

```
create table f_record(
  record_id int primary key,
  eid int,
  foreign key (eid) references employee(eid),
  record_date date,
  description varchar(50),
  amount float,
  record_type varchar(50)
);
```

```
mysql> desc f_record;
```

Field	Type	Null	Key	Default	Extra
record_id	int	NO	PRI	NULL	
eid	int	YES	MUL	NULL	
record_date	date	YES		NULL	
description	varchar(50)	YES		NULL	
amount	float	YES		NULL	
record_type	varchar(50)	YES		NULL	

```
6 rows in set (0.00 sec)
```

```
insert into f_record values(10001,1,'2024-04-18','Salary',200000,'Income'),
(10002,2,'2024-04-18','Expenditure',200000,'Expense'),
(10003,3,'2024-04-18','Salary',300000,'Income'),
(10004,4,'2024-04-18','Expenditure',300000,'Expense'),
(10005,5,'2024-04-18','Salary',500000,'Income'),
(10006,6,'2024-04-18','Salary',200000,'Income'),
(10007,7,'2024-04-18','Expenditure',200000,'Expense'),
(10008,8,'2024-04-18','Salary',300000,'Income'),
```

```
(10009,7,'2024-04-18','Expenditure',300000,'Expense'),  
(10010,10,'2024-04-18','Salary',500000,'Income');
```

```
mysql> select * from f_record;
```

record_id	eid	record_date	description	amount	record_type
10001	1	2024-04-18	Salary	200000	Income
10002	2	2024-04-18	Expenditure	200000	Expense
10003	3	2024-04-18	Salary	300000	Income
10004	4	2024-04-18	Expenditure	300000	Expense
10005	5	2024-04-18	Salary	500000	Income
10006	6	2024-04-18	Salary	200000	Income
10007	7	2024-04-18	Expenditure	200000	Expense
10008	8	2024-04-18	Salary	300000	Income
10009	7	2024-04-18	Expenditure	300000	Expense
10010	10	2024-04-18	Salary	500000	Income

```
10 rows in set (0.00 sec)
```