



DATABASE MANAGEMENT SYSTRM

project

NAME: *Employee Payroll Management
System*

PREPARED BY :

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- Batch : 6
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SCHEMAS

DATABASE : Employee_Payroll_Management_System

(1).TABLES :

1. **department**

- d_id (P . K)
- d_name

2. **employee**

- e_id (P.K),
- d_id (F.K)
- first_name ,
- middle_name
- last_name
- email
- hire_date
- hourly_payrate
- monthly_salary
- bank_name
- account_number

3. **leave**

- leave_id (P.K)
- e_id (F.K)
- leave_date
- leave_type
- total_hours

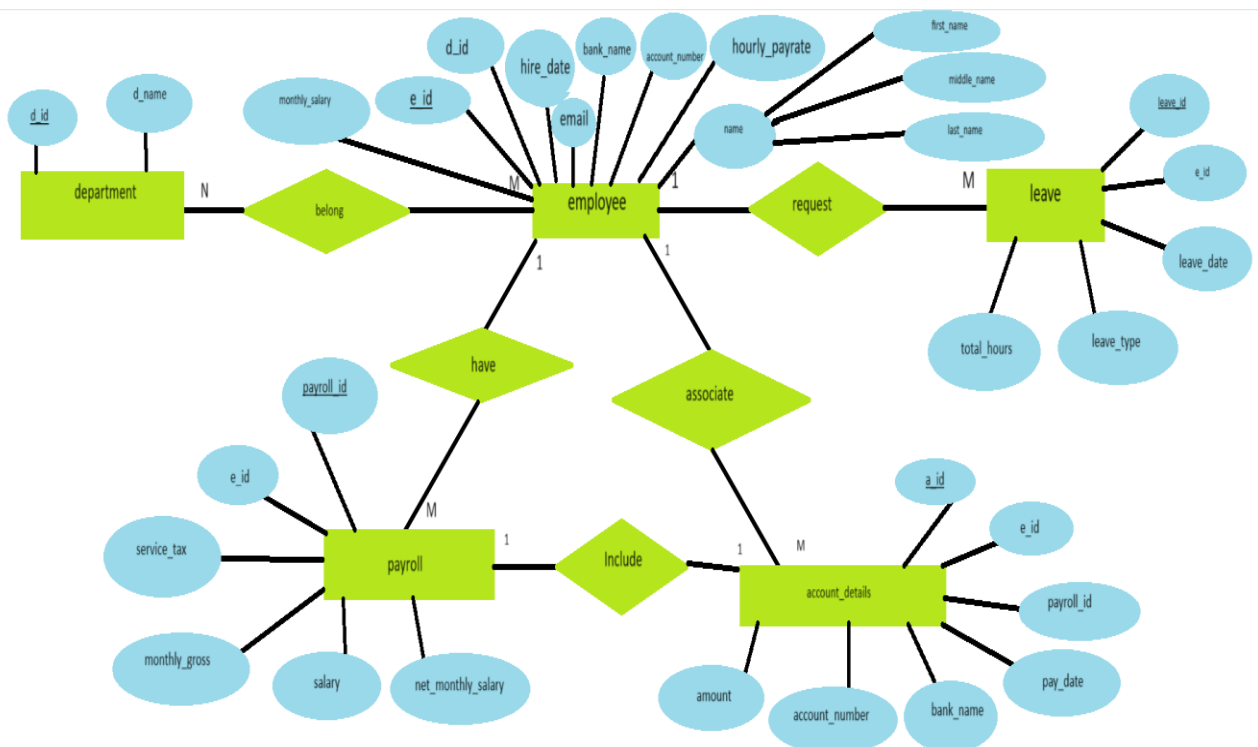
4. **payroll**

- payroll_id (P .K)
- e_id
- service_tax
- monthly_gross_
- salary
- net_monthly_salary

5. account details

- a_id (P.K)
- e_id (F.K)
- payroll_id (F.K)
- pay_date
- bank_name
- account_number
- amount

E-R DIAGRAM





SYNTAX FOR CREATE

-- Create a table to store departments

```
CREATE TABLE department ( d_id INT PRIMARY KEY, d_name VARCHAR(100));
```

-- Create a table to store employee information

```
CREATE TABLE employee ( e_id INT PRIMARY KEY, d_id INT, first_name VARCHAR(50), middle_name  
VARCHAR(50), last_name VARCHAR(50), email VARCHAR(100), hire_date DATE, hourly_payrate  
DECIMAL(10,2), monthly_salary DECIMAL(10, 2), bank_name VARCHAR(45), account_number  
VARCHAR(20) , foreign key(d_id) REFERENCES department(d_id));
```

-- Create a table to store leave information

```
CREATE TABLE leave ( leave_id INT PRIMARY KEY, e_id INT, leave_date DATE, leave_type  
VARCHAR(50), total_hours INT check (total_hours>0 and total_hours<8), foreign key(e_id)  
REFERENCES employee(e_id));
```

-- Create a table to store payroll information

```
CREATE TABLE payroll ( payroll_id INT PRIMARY KEY, e_id INT, service_tax DECIMAL(10, 2),  
monthly_gross_salary DECIMAL(10, 2), net_monthly_salary DECIMAL(10, 2), foreign key(e_id)  
REFERENCES employee(e_id));
```

-- Create a table to store payment transfer details information

```
CREATE TABLE account_details( a_id INT PRIMARY KEY, e_id INT, payroll_id INT, pay_date DATE,  
bank_name VARCHAR(45), account_number VARCHAR(45), amount DECIMAL(10,2),  
foreign key(e_id) REFERENCES employee(e_id), foreign key(payroll_id) REFERENCES  
payroll(payroll_id));
```



SYNTAX FOR INSERT

-- Insert some department data

```
INSERT INTO department(d_id,d_name) VALUES (1,'HR'), (2,'Finance'), (3,'Engineering'),  
(4,'Sales');
```

-- Inserting an employee's payroll information

```
INSERT INTO employee(e_id, d_id, first_name, middle_name, last_name, email, hire_date, hourly_payrate, monthly_salary,  
bank_name, account_number) VALUES
```

```
(1,1,'Khushi','Jayeshkumar','Shah','khushishah@gmail.com','2023-10-02',238,50000,'SBI',345678903456),  
(2,2,'Sangita','Rameshchandra','Shah','sangitashah@gmail.com','2023-10-01',242,51000,'BOI',987654756432),  
(3,3,'Shivangi','Utsavkumar','Shah','shivangishah@gmail.com','2023-10-03',238,50000,'SBI',345678890900),  
(4,4,'Jayesh','Bansilal','Shah','jayeshshah@gmail.com','2023-10-05',245,51500,'HDFC',598763948576),  
(5,1,'Jiya','Rajesh','Sharma','jiyarajesh@gmail.com','2023-10-05',242,51000,'SBI',345678890193),  
(6,2,'Rishi','Kalpesh','Varma','rishivarma@gmail.com','2022-10-19',245,51500,'HDFC',598763944596),  
(7,3,'Kavish','Nimeshkumar','Shah','kavishshah@gmail.com','2023-10-03',238,50000,'SBI',345678890946),  
(8,4,'Nimit','Rakeshbhai','Gupta','nimitgupta@gmail.com','2023-10-07',242,51000,'BOI',987654758994),  
(9,1,'Khushbu','Jayendra','Sharma','khushbusharma@gmail.com','2023-10-02',238,50000,'SBI',345678909978),  
(10,2,'Saloni','Janmesh','Kher','salonikher@gmail.com','2023-10-07',242,51000,'SBI',345678908876),  
(11,3,'Vivek','Dipak','Shah','vivekshah@gmail.com','2023-10-03',238,50000,'SBI',345678892237),  
(12,4,'Tanishq','Dipakkumar','Shah','tanishqshah@gmail.com','2023-10-05',245,51500,'HDFC',598763943345),  
(13,1,'Yesha','Parthkumar','Bhatt','yeshabhatter@gmail.com','2023-10-02',238,50000,'SBI',345678902239),  
(14,2,'Darshil','Dipak','Shah','darshilshah@gmail.com','2023-10-01',242,51000,'BOI',987654753376),  
(15,3,'Harsh','Umang','Sharma','harshsharma@gmail.com','2023-10-03',238,50000,'SBI',345678811145),  
(16,4,'Hetvi','Banshidhar','Chavda','hetvichavda@gmail.com','2023-10-09',245,51500,'HDFC',598763933654),  
(17,1,'Arush','Uttamkumar','Jain','arushjain@gmail.com','2023-10-01',238,50000,'SBI',345678933789),  
(18,2,'Amit','Rameshchandra','Shah','amitshah@gmail.com','2023-10-02',242,51000,'BOI',987654752290),  
(19,3,'Unnati','Utsavkumar','Varma','unnativarma@gmail.com','2023-10-03',238,50000,'SBI',345678844937),  
(20,4,'Hetali','Kalpeshkumar','Shah','hetalishah@gmail.com','2023-10-06',245,51500,'HDFC',59876353908),  
(21,1,'Kiran','Jayesh','Jain','kiranjain@gmail.com','2023-10-03',238,50000,'SBI',345678901123),  
(22,2,'Megh','Rameshbhai','Shah','meghshah@gmail.com','2023-10-09',242,51000,'BOI',987654755239),  
(23,3,'Tanmay','Jigarbhai','Bhatt','tanmaybhatt@gmail.com','2023-10-04',238,50000,'SBI',345678833890),  
(24,4,'Charmi','Kamlesh','Shah','charmishah@gmail.com','2023-10-06',245,51500,'HDFC',598763942293),
```



(25,4,'Priyanshi','Kirankumar','Patel','priyanshipatel@gmail.com','2023-10-05',245,51500,'HDFC',598763911119);

-- Insert employee leave data

INSERT INTO leave (leave_id,e_id,leave_date,leave_type,total_hours)

VALUES (1,2,'2023-10-12','Sick Leave',7),
(2,1,'2023-10-20','Vacation',7),
(3,3,'2023-10-21','Vacation',7),
(4,3,'2023-10-21','Vacation',7),
(5,3,'2023-10-21','Vacation',7),
(6,11,'2023-10-11','Sick Leave',5),
(7,20,'2023-10-21','Personal work',4),
(8,15,'2023-10-15','Personal work',7);

-- Insert payroll data

INSERT INTO payroll(payroll_id,e_id)

VALUES (1,1),(2,2),(3,3),(4,4),(5,5),(6,6),(7,7),(8,8),(9,9),(10,10),(11,11),(12,12),(13,13),(14,14),(15,15),(16,16),(17,17),(18,18),
(19,19),(20,20),(21,21),(22,22),(23,23),(24,24),(25,25);

-- Insert payment data

INSERT INTO account_details(a_id,payroll_id,pay_date)

VALUES (1,1,'2023-11-02'),
(2,2,'2023-11-02'),(3,3,'2023-11-02'),(4,4,'2023-11-02'),(5,5,'2023-11-02'),(6,6,'2023-11-02'),(7,7,'2023-11-02'),
(8,8,'2023-11-02'),(9,9,'2023-11-02'),(10,10,'2023-11-02'),(11,11,'2023-11-02'),(12,12,'2023-11-02'),(13,13,'2023-11-02'),
(14,14,'2023-11-02'),(15,15,'2023-11-02'),(16,16,'2023-11-02'),(17,17,'2023-11-02'),(18,18,'2023-11-02'),(19,19,'2023-11-02'),
(20,20,'2023-11-02'),(21,21,'2023-11-02'),(22,22,'2023-11-02'),(23,23,'2023-11-02'),(24,24,'2023-11-02'),(25,25,'2023-11-02');



SYNTAX FOR SELECT

select * from department;

	d_id [PK] integer	d_name character varying (100)
1	1	HR
2	2	Finance
3	3	Engineering
4	4	Sales

select * from employee;

	e_id [PK] integer	d_id integer	first_name character varying (50)	middle_name character varying (50)	last_name character varying (50)	email character varying (100)	hire_date date	hourly_payrate numeric (10,2)	monthly_salary numeric (10,2)	bank_name character varying (50)
1	2	2	Sangita	Rameshchandra	Shah	sangitashah@gmail.com	2023-10-01	242.00	51000.00	BOI
2	3	3	Shivangi	Utsavkumar	Shah	shivangishah@gmail.com	2023-10-03	238.00	50000.00	SBI
3	4	4	Jayesh	Bansilal	Shah	jayeshshah@gmail.com	2023-10-05	245.00	51500.00	HDFC
4	5	1	Jiya	Rajesh	Sharma	jiyarajesh@gmail.com	2023-10-05	242.00	51000.00	SBI
5	6	2	Rishi	Kalpesh	Varma	rishivarma@gmail.com	2022-10-19	245.00	51500.00	HDFC
6	7	3	Kavish	Nimeshkumar	Shah	kavishshah@gmail.com	2023-10-03	238.00	50000.00	SBI
7	8	4	Nimit	Rakeshbhai	Gupta	nimitgupta@gmail.com	2023-10-07	242.00	51000.00	BOI
8	9	1	Khushbu	Jayendra	Sharma	khushbusharma@gmail.c...	2023-10-02	238.00	50000.00	SBI
9	10	2	Saloni	Janmesh	Kher	salonikher@gmail.com	2023-10-07	242.00	51000.00	SBI
10	11	3	Vivek	Dipak	Shah	vivekshah@gmail.com	2023-10-03	238.00	50000.00	SBI
11	12	4	Tanishq	Dipakkumar	Shah	tanishqshah@gmail.com	2023-10-05	245.00	51500.00	HDFC
12	13	1	Yesha	Parthkumar	Bhatt	yeshabhatter@gmail.com	2023-10-02	238.00	50000.00	SBI
13	14	2	Darshil	Dipak	Shah	darshilshah@gmail.com	2023-10-01	242.00	51000.00	BOI
14	15	3	Harsh	Umang	Sharma	harshsharma@gmail.com	2023-10-03	238.00	50000.00	SBI
15	16	4	Hetvi	Banshidhar	Chavda	hetvichavda@gmail.com	2023-10-09	245.00	51500.00	HDFC
16	17	1	Arush	Uttamkumar	Jain	arushjain@gmail.com	2023-10-01	238.00	50000.00	SBI
17	18	2	Amit	Rameshchandra	Shah	amitshah@gmail.com	2023-10-02	242.00	51000.00	BOI
18	19	3	Unnati	Utsavkumar	Varma	unnativarma@gmail.com	2023-10-03	238.00	50000.00	SBI
19	20	4	Hetal	Kalpeshkumar	Shah	hetalshah@gmail.com	2023-10-06	245.00	51500.00	HDFC
20	21	1	Kiran	Jayesh	Jain	kiranjain@gmail.com	2023-10-03	238.00	50000.00	SBI
21	22	2	Megh	Rameshbhai	Shah	meghshah@gmail.com	2023-10-09	242.00	51000.00	BOI



	id varying (50)	middle_name character varying (50)	last_name character varying (50)	email character varying (100)	hire_date date	hourly_payrate numeric (10,2)	monthly_salary numeric (10,2)	bank_name character varying (45)	account_number character varying (20)
1		Rameshchandra	Shah	sangitashah@gmail.com	2023-10-01	242.00	51000.00	BOI	987654756432
2		Utsavkumar	Shah	shivangishah@gmail.com	2023-10-03	238.00	50000.00	SBI	345678890900
3		Bansilal	Shah	jayeshshah@gmail.com	2023-10-05	245.00	51500.00	HDFC	598763948576
4		Rajesh	Sharma	jiyarajesh@gmail.com	2023-10-05	242.00	51000.00	SBI	345678890193
5		Kalpesh	Varma	rishivarma@gmail.com	2022-10-19	245.00	51500.00	HDFC	598763944596
6		Nimeshkumar	Shah	kavishshah@gmail.com	2023-10-03	238.00	50000.00	SBI	345678890946
7		Rakeshbhai	Gupta	nimitgupta@gmail.com	2023-10-07	242.00	51000.00	BOI	987654758994
8		Jayendra	Sharma	khushbusharma@gmail.c...	2023-10-02	238.00	50000.00	SBI	345678909978
9		Janmesh	Kher	salonikher@gmail.com	2023-10-07	242.00	51000.00	SBI	345678908876
10		Dipak	Shah	vivekshah@gmail.com	2023-10-03	238.00	50000.00	SBI	345678892237
11		Dipakkumar	Shah	tanishqshah@gmail.com	2023-10-05	245.00	51500.00	HDFC	598763943345
12		Parthkumar	Bhatt	yeshabbhatt@gmail.com	2023-10-02	238.00	50000.00	SBI	345678902239
13		Dipak	Shah	darshilshah@gmail.com	2023-10-01	242.00	51000.00	BOI	987654753376
14		Umang	Sharma	harshsharma@gmail.com	2023-10-03	238.00	50000.00	SBI	345678811145
15		Banshidhar	Chavda	hetvichavda@gmail.com	2023-10-09	245.00	51500.00	HDFC	598763933654
16		Uttamkumar	Jain	arushjain@gmail.com	2023-10-01	238.00	50000.00	SBI	345678933789
17		Rameshchandra	Shah	amitshah@gmail.com	2023-10-02	242.00	51000.00	BOI	987654752290
18		Utsavkumar	Varma	unnativarma@gmail.com	2023-10-03	238.00	50000.00	SBI	345678844937
19		Kalpeshkumar	Shah	hetalshah@gmail.com	2023-10-06	245.00	51500.00	HDFC	598763553908
20		Jayesh	Jain	kiranjain@gmail.com	2023-10-03	238.00	50000.00	SBI	345678901123
21		Rameshbhai	Shah	meghshah@gmail.com	2023-10-09	242.00	51000.00	BOI	987654755239
Total rows: 25 of 25 Query complete 00:00:00.094 Ln 328, Col 1									

select * from leave;

	leave_id [PK] integer	e_id integer	leave_date date	leave_type character varying (50)	total_hours integer
1	1	2	2023-10-12	Sick Leave	7
2	2	1	2023-10-20	Vacation	7
3	3	3	2023-10-21	Vacation	7
4	4	3	2023-10-21	Vacation	7
5	5	3	2023-10-21	Vacation	7
6	6	11	2023-10-11	Sick Leave	5
7	7	20	2023-10-21	Personal work	4
8	8	15	2023-10-15	Personal work	7
Total rows: 8 of 8 Query complete 00:00:00.133					



select * from payroll;

```
NOTICE: gross_sal 48334.00
NOTICE: gross_sal 49306.00
NOTICE: gross_sal 45002.00
NOTICE: gross_sal 51500.00
NOTICE: gross_sal 51000.00
NOTICE: gross_sal 51500.00
NOTICE: gross_sal 50000.00
NOTICE: gross_sal 51000.00
NOTICE: gross_sal 50000.00
NOTICE: gross_sal 51000.00
NOTICE: gross_sal 48810.00
NOTICE: gross_sal 51500.00
NOTICE: gross_sal 50000.00
NOTICE: gross_sal 51000.00
NOTICE: gross_sal 48334.00
NOTICE: gross_sal 51500.00
NOTICE: gross_sal 50000.00
NOTICE: gross_sal 51000.00
NOTICE: gross_sal 50000.00
NOTICE: gross_sal 50520.00
NOTICE: gross_sal 50000.00
NOTICE: gross_sal 51000.00
NOTICE: gross_sal 50000.00
NOTICE: gross_sal 51500.00
NOTICE: gross_sal 51500.00
INSERT 0 25
```

Query returned successfully in 65 msec.

Total rows: 0 of 0	Query complete 00:00:00.065
--------------------	-----------------------------



select * from account_details;

	a_id [PK] integer	e_id integer	payroll_id integer	pay_date date	bank_name character varying (45)	account_number character varying (45)	amount numeric (10,2)
1	1	1	1	2023-11-02	SBI	345678903456	48034.00
2	2	2	2	2023-11-02	BOI	987654756432	49006.00
3	3	3	3	2023-11-02	SBI	345678890900	44702.00
4	4	4	4	2023-11-02	HDFC	598763948576	51200.00
5	5	5	5	2023-11-02	SBI	345678890193	50700.00
6	6	6	6	2023-11-02	HDFC	598763944596	51200.00
7	7	7	7	2023-11-02	SBI	345678890946	49700.00
8	8	8	8	2023-11-02	BOI	987654758994	50700.00
9	9	9	9	2023-11-02	SBI	345678909978	49700.00
10	10	10	10	2023-11-02	SBI	345678908876	50700.00
11	11	11	11	2023-11-02	SBI	345678892237	48510.00
12	12	12	12	2023-11-02	HDFC	598763943345	51200.00
13	13	13	13	2023-11-02	SBI	345678902239	49700.00
14	14	14	14	2023-11-02	BOI	987654753376	50700.00
15	15	15	15	2023-11-02	SBI	345678811145	48034.00
16	16	16	16	2023-11-02	HDFC	598763933654	51200.00
17	17	17	17	2023-11-02	SBI	345678933789	49700.00
18	18	18	18	2023-11-02	BOI	987654752290	50700.00
19	19	19	19	2023-11-02	SBI	345678844937	49700.00
20	20	20	20	2023-11-02	HDFC	598763553908	50220.00
21	21	21	21	2023-11-02	SBI	345678901123	49700.00
22	22	22	22	2023-11-02	BOI	987654755220	50700.00
Total rows: 25 of 25 Query completed: 00:00:00.155							



FUNCTIONS

(1).for calculate monthly gross salary

```
CREATE OR REPLACE FUNCTION calculate_monthly_gross_salary(employee_id int)
RETURNS DECIMAL AS $$
DECLARE
m_payment employee.monthly_salary%type;
hourly_rate employee.hourly_payrate%type;
t_hours leave.total_hours%type;
gross_sal payroll.monthly_gross_salary%type;
BEGIN
SELECT hourly_payrate,monthly_salary into hourly_rate,m_payment from employee where
e_id=employee_id;
SELECT COALESCE(SUM(total_hours),0) into t_hours from leave where e_id=employee_id;
gross_sal :=m_payment-(t_hours * hourly_rate);
raise notice'gross_sal %',gross_sal;
RETURN COALESCE(gross_sal,0);
END;
$$
LANGUAGE plpgsql;
```

(2). for calculate net salary

```
CREATE OR REPLACE FUNCTION calculate_net_salary(gross_salary DECIMAL, servicetax DECIMAL)
RETURNS DECIMAL AS $$
BEGIN
RETURN gross_salary - servicetax;
END;
$$
LANGUAGE plpgsql;
```



(3) .FOR UPDATE IN SALARY

CREATE OR REPLACE FUNCTION update_employee_monthly_salary(employee_id INT,
new_hourly_salary DECIMAL,new_monthly_salary DECIMAL)

RETURNS VOID AS \$\$

BEGIN

UPDATE employee

SET monthly_salary=new_monthly_salary, hourly_payrate=new_hourly_salary

WHERE e_id = employee_id;

END;

\$\$ LANGUAGE plpgsql;

SELECT update_employee_monthly_salary(1,250,52500);

(4) .DELETE EMPLOYEE

CREATE OR REPLACE FUNCTION delete_employee(employee_id INT)

RETURNS VOID AS \$\$

BEGIN

DELETE FROM account_details WHERE e_id= employee_id;

DELETE FROM leave WHERE e_id=employee_id;

DELETE FROM payroll WHERE e_id = employee_id;

DELETE FROM employee WHERE e_id = employee_id;

END;

\$\$ LANGUAGE plpgsql;

SELECT delete_employee(1);



TRIGGER

(1). for update payroll function

```
CREATE OR REPLACE FUNCTION update_payroll()
RETURNS TRIGGER

AS $$

BEGIN

    -- Delete old records for the same e_id
    DELETE FROM account_details WHERE e_id = NEW.e_id;

    DELETE FROM payroll WHERE e_id = NEW.e_id;

    NEW.monthly_gross_salary := calculate_monthly_gross_salary(NEW.e_id);

    NEW.service_tax:= 300;

    NEW.net_monthly_salary := calculate_net_salary(NEW.monthly_gross_salary, NEW.service_tax);

    RETURN NEW;

END;

$$

LANGUAGE plpgsql;
```

--for update payroll function trigger

```
CREATE TRIGGER payroll_update_trigger
BEFORE INSERT ON payroll
FOR EACH ROW
EXECUTE FUNCTION update_payroll();
```

--for delete trigger

```
DROP TRIGGER IF EXISTS payroll_update_trigger ON payroll;
```



(2). for insert details in account detail table

```
CREATE OR REPLACE FUNCTION payment_of_employee()
RETURNS TRIGGER AS $$
DECLARE
payment account_details.amount%type;
employee_id account_details.e_id%type;
a_no account_details.account_number%type;
b_name account_details.bank_name%type;
BEGIN
        SELECT  net_monthly_salary,e_id  into  payment,employee_id  from  payroll  WHERE
payroll_id=NEW.payroll_id;
        NEW.amount :=payment;
        NEW.e_id :=employee_id;
        SELECT  bank_name,account_number  into  b_name,a_no  from  employee  WHERE
e_id=employee_id;
        NEW.bank_name=b_name;
        NEW.account_number=a_no;
        RETURN NEW;
END;
$$
LANGUAGE plpgsql;
```

--TRIGGER

```
CREATE TRIGGER payment_transferred
BEFORE INSERT ON account_details
FOR EACH ROW
EXECUTE FUNCTION payment_of_employee();
```

--for delete trigger

```
DROP TRIGGER IF EXISTS payment_transferred ON account_details;
```



PROCEDURE

(1) . TOTAL EXPENCE OF DEPARTMENT

```
CREATE OR REPLACE PROCEDURE calculate_department_expenses(department_name IN VARCHAR)
AS $$
DECLARE
    department_id int;
    total_expenses DECIMAL ;
BEGIN
    SELECT  d.d_id,SUM(p.net_monthly_salary)  into  department_id,total_expenses  FROM
employee
    AS e INNER JOIN department AS d on e.d_id=d.d_id INNER JOIN payroll
    AS p ON e.e_id=p.e_id WHERE d.d_name=department_name GROUP BY d.d_id ;
    RAISE NOTICE'TOTAL EXPECES : %',total_expenses;
END;
$$ LANGUAGE plpgsql;

call calculate_department_expenses('HR');
```

(2) . PROCEDURE for display payslip for particular employee

```
CREATE OR REPLACE PROCEDURE employee_payslip(employee_id IN INT)
AS $$
DECLARE
    department_id department.d_id%type;
    department_name department.d_name%type;
    employee_first_name employee.first_name%type;
    employee_middle_name employee.middle_name%type;
    employee_last_name employee.last_name%type;
```



```
employee_email employee.email%type;
employee_hire_date employee.hire_date%type;
employee_hourly_pay employee.hourly_payrate%type;
employee_monthly_sal employee.monthly_salary%type;
employee_total_leave_hours INT;
employee_total_leaves INT;
service_tax payroll.service_tax%type;
e_monthly_gross_sal payroll.monthly_gross_salary%type;
e_net_sal payroll.net_monthly_salary%type;
e_account_no account_details.account_number%type;
e_bank_name account_details.bank_name%type;
e_pay_date account_details.pay_date%type;
```

BEGIN

```
select count(l.leave_date),sum(l.total_hours) into employee_total_leaves,
        employee_total_leave_hours FROM employee as e
        INNER JOIN leave as l on e.e_id=l.e_id
        WHERE e.e_id=employee_id GROUP BY e.e_id;
```

```
SELECT a.account_number,a.bank_name,a.pay_date INTO e_account_no ,e_bank_name,e_pay_date
FROM account_details as a
```

```
WHERE a.e_id=employee_id;
```

```
SELECT e.e_id,e.first_name,e.middle_name,e.last_name,e.email,e.hire_date,e.hourly_payrate,
        e.monthly_salary,p.service_tax,p.monthly_gross_salary,p.net_monthly_salary      into
employee_id ,
        employee_first_name,employee_middle_name,employee_last_name,employee_email,empl
oyee_hire_date,employee_hourly_pay,
        employee_monthly_sal,service_tax ,e_monthly_gross_sal ,e_net_sal FROM
        payroll as p INNER JOIN employee as e on p.e_id=e.e_id WHERE p.e_id=employee_id;
```




```
select d.d_id,d.d_name into department_id,department_name FROM department as d INNER JOIN  
employee as e on d.d_id=e.d_id
```

```
WHERE e.e_id=employee_id GROUP BY d.d_id ;
```

```
RAISE NOTICE'-----';
```

```
RAISE NOTICE'                PAY SLIP                ';
```

```
RAISE NOTICE'-----';
```

```
RAISE NOTICE'Pay Date : % ',e_pay_date ;
```

```
RAISE  NOTICE'Employee id : % , Department id : % ,Department Name : %  
'employee_id,department_id,department_name;
```

```
RAISE      NOTICE'Employee      Name      :      %      %  
'%,employee_first_name,employee_middle_name,employee_last_name;
```

```
RAISE NOTICE'Email id : % ',employee_email;
```

```
RAISE  NOTICE'Hire date : % ,Hourly pay : % ,Monthly salary : %  
'employee_hire_date,employee_hourly_pay,employee_monthly_sal;
```

```
RAISE  NOTICE'Total leaves : % ,total leave hour : %  
'employee_total_leaves,employee_total_leave_hours;
```

```
RAISE NOTICE'-----';
```

```
RAISE NOTICE'Account no : % ',e_account_no;
```

```
RAISE NOTICE'Bank name : % ',e_bank_name;
```

```
RAISE NOTICE'-----';
```

```
RAISE NOTICE'Monthly gross salary : % ',e_monthly_gross_sal;
```

```
RAISE NOTICE'Service tax : % ',service_tax;
```

```
RAISE NOTICE'Net Salary : % ',e_net_sal;
```

```
RAISE NOTICE'-----';
```

```
END;
```

```
$$
```

```
LANGUAGE plpgsql;
```

```
CALL employee_payslip(2);
```



QUERIES

(1). LEAVE COUNT

```
SELECT e_id,COUNT(leave_date) as Total_leaves from leave GROUP BY e_id Having  
COUNT(leave_date)>2;
```

(2) . Total Expenses by Department

```
SELECT d.d_id,d.d_name,SUM(p.net_monthly_salary) as TOTAL_PAYMENT FROM employee AS e  
INNER JOIN department AS d on e.d_id=d.d_id INNER JOIN payroll  
AS p ON e.e_id=p.e_id GROUP BY d.d_id;
```

(3) . AVERAGE SALARY

```
SELECT AVG(monthly_salary) as salary_of_month FROM employee ;
```

DELETE WHOLE DATA

```
DELETE FROM account_details ;
```

```
DELETE FROM leave ;
```

```
DELETE FROM payroll ;
```

```
DELETE FROM employee;
```

```
DELETE FROM department;
```