

1. CREATE TABLE employee_payroll(id int PRIMARY KEY AUTO_INCREMENT , Name varchar(20) , Salary float , Start_Date DATE);
2. INSERT INTO employee_payroll VALUES(1,'rakesh',30000,'2022-07-03');

```
INSERT INTO employee_payroll(name,salary,start_date)
VALUES('rahul',40000,'2022-04-09');
```

mysql> select * from employee_payroll;

```
mysql> INSERT INTO employee_payroll(name,salary,start_date) VALUES('rahul',40000,2022-04-09);
ERROR 1292 (22007): Incorrect date value: '2009' for column 'Start_Date' at row 1
mysql> INSERT INTO employee_payroll(name,salary,start_date) VALUES('rahul',40000,'2022-04-09');
Query OK, 1 row affected (0.00 sec)

mysql> select * from employee_payroll;
+----+-----+-----+-----+
| id | Name  | Salary | Start_Date |
+----+-----+-----+-----+
| 1  | rakesh | 30000  | 2022-07-03 |
| 2  | ravi   | 35000  | 2022-03-10 |
| 3  | rahul  | 40000  | 2022-04-09 |
+----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

mysql> SELECT salary FROM employee_payroll WHERE name = 'ravi';

```
mysql> SELECT salary FROM employee_payroll WHERE name = 'ravi';
+-----+
| salary |
+-----+
| 35000  |
+-----+
1 row in set (0.00 sec)
```

mysql> SELECT salary FROM employee_payroll WHERE Start_Date BETWEEN CAST('2018-01-01' AS DATE) AND DATE(NOW());

```
mysql> SELECT salary FROM employee_payroll WHERE Start_Date BETWEEN CAST('2018-01-01' AS DATE) AND DATE(NOW());
+-----+
| salary |
+-----+
| 30000  |
| 35000  |
| 40000  |
| 47000  |
+-----+
4 rows in set (0.01 sec)
```

```
mysql> ALTER TABLE employee_payroll ADD COLUMN Gender char(1);
```

```
mysql> select * from employee_payroll;
+-----+-----+-----+-----+-----+
| id | Name   | Salary | Start_Date | Gender |
+-----+-----+-----+-----+-----+
| 1  | rakesh | 30000  | 2022-07-03 | NULL   |
| 2  | ravi   | 35000  | 2022-03-10 | NULL   |
| 3  | rahul  | 40000  | 2022-04-09 | NULL   |
| 4  | lokesh | 47000  | 2021-06-08 | NULL   |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> UPDATE employee_payroll set gender = 'M' where name = 'rakesh' or name = 'lokesh';
```

```
mysql> UPDATE employee_payroll set gender = 'M' where name = 'rakesh' or name = 'lokesh';
Query OK, 1 row affected (0.00 sec)
Rows matched: 2  Changed: 1  Warnings: 0

mysql> select * from employee_payroll;
+-----+-----+-----+-----+-----+
| id | Name   | Salary | Start_Date | Gender |
+-----+-----+-----+-----+-----+
| 1  | rakesh | 30000  | 2022-07-03 | M      |
| 2  | ravi   | 35000  | 2022-03-10 | M      |
| 3  | rahul  | 40000  | 2022-04-09 | M      |
| 4  | lokesh | 47000  | 2021-06-08 | M      |
+-----+-----+-----+-----+-----+
```

```
mysql> SELECT SUM(salary) FROM employee_payroll WHERE Gender = 'M' GROUP BY gender;
```

```
mysql> SELECT SUM(salary) FROM employee_payroll WHERE Gender = 'M' GROUP BY gender;
+-----+
| SUM(salary) |
+-----+
|      152000 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT AVG(Salary) FROM employee_payroll GROUP BY Gender;
```

```
mysql> SELECT AVG(Salary) FROM employee_payroll GROUP BY Gender;
+-----+
| AVG(Salary) |
+-----+
|      38000 |
+-----+
1 row in set (0.01 sec)
```

```
mysql> SELECT MIN(Salary) FROM employee_payroll GROUP BY Gender;
```

```
mysql> SELECT MIN(Salary) FROM employee_payroll GROUP BY Gender;
+-----+
| MIN(Salary) |
+-----+
|      30000 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT MAX(Salary) FROM employee_payroll GROUP BY Gender;
```

```
mysql> SELECT MAX(Salary) FROM employee_payroll GROUP BY Gender;
+-----+
| MAX(Salary) |
+-----+
|      47000 |
+-----+
```

```
mysql> SELECT Gender, COUNT(Gender) FROM employee_payroll GROUP BY Gender;
```

```
mysql> SELECT Gender, COUNT(Gender) FROM employee_payroll GROUP BY Gender;
+-----+-----+
| Gender | COUNT(Gender) |
+-----+-----+
| M      | 4              |
+-----+-----+
```

```
mysql> ALTER TABLE employee_payroll ADD Phone int,
      ADD Address varchar(50) DEFAULT 'India',
      ADD Department varchar(30) NOT NULL;
```

```
mysql> select * from employee_payroll;
+----+-----+-----+-----+-----+-----+-----+-----+
| id | Name   | Salary | Start_Date | Gender | Phone | Address | Department |
+----+-----+-----+-----+-----+-----+-----+-----+
| 1  | rakesh | 30000  | 2022-07-03 | M      | NULL  | India   |             |
| 2  | ravi   | 35000  | 2022-03-10 | M      | NULL  | India   |             |
| 3  | rahul  | 40000  | 2022-04-09 | M      | NULL  | India   |             |
| 4  | lokesh | 47000  | 2021-06-08 | M      | NULL  | India   |             |
+----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> ALTER TABLE employee_payroll ADD Basic_Pay int,
      ADD Deductions int,
      ADD Taxable_Pay int,
      ADD Income_Tax int,
      ADD Net_Pay int;
```

```
mysql> select * from employee_payroll;
```

id	Name	Salary	Start_Date	Gender	Phone	Address	Department	Basic_Pay	Deductions	Taxable_Pay	Income_Tax	Net_Pay
1	rakesh	30000	2022-07-03	M	NULL	India		NULL	NULL	NULL	NULL	NULL
2	ravi	35000	2022-03-10	M	NULL	India		NULL	NULL	NULL	NULL	NULL
3	rahul	40000	2022-04-09	M	NULL	India		NULL	NULL	NULL	NULL	NULL
4	lokesh	47000	2021-06-08	M	NULL	India		NULL	NULL	NULL	NULL	NULL