EMPLOYEE DATABASE

- **Creating EMPLOYEE table.**
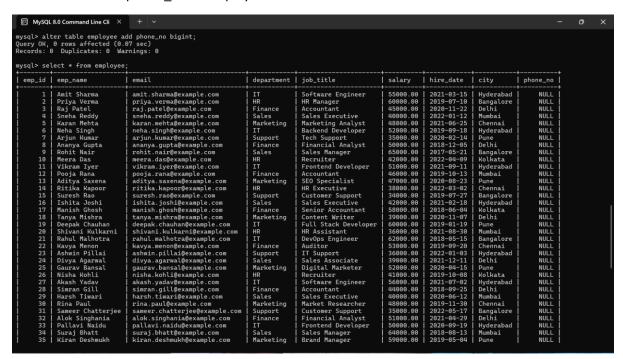
```
mysql> create table Employee(
    -> emp_id int primary key,
    -> emp_name varchar(50),
    -> email varchar(100),
    -> department varchar(50),
    -> job_title varchar(50),
    -> salary decimal(10,2),
    -> hire_date date,
    -> city varchar(50)
    -> );
Query OK, 0 rows affected (0.09 sec)

mysql> show tables;
+----------------------+
| Tables_in_employeedb |
+----------------------+
| employee             |
+----------------------+
1 row in set (0.00 sec)

mysql> select * from employee;
Empty set (0.01 sec)

mysql> insert into employee(emp_id, emp_name, email, department, job_title, salary, hire_date, city) values (
    -> 1, 'Amit Sharma', 'amit.sharma@example.com', 'IT', 'Software Engineer', 55000, '2021-03-15', 'Hyderabad'),
    -> (2, 'Priya Verma', 'priya.verma@example.com', 'HR', 'HR Manager', 60000, '2019-07-10', 'Bangalore'),
    -> (3, 'Raj Patel', 'raj.patel@example.com', 'Finance', 'Accountant', 45000, '2020-11-22', 'Delhi'),
    -> (4, 'Sneha Reddy', 'sneha.reddy@example.com', 'Sales', 'Sales Executive', 40000, '2022-01-12', 'Mumbai'),
    -> (5, 'Karan Mehta', 'karan.mehta@example.com', 'Marketing', 'Marketing Analyst', 48000, '2021-06-25', 'Chennai'),
    -> (6, 'Neha Singh', 'neha.singh@example.com', 'IT', 'Backend Developer', 52000, '2019-09-18', 'Hyderabad'),
    -> (7, 'Arjun Kumar', 'arjun.kumar@example.com', 'Support', 'Tech Support', 35000, '2020-02-14', 'Pune'),
    -> (8, 'Ananya Gupta', 'ananya.gupta@example.com', 'Finance', 'Financial Analyst', 50000, '2018-12-05', 'Delhi'),
    -> (9, 'Rohit Nair', 'rohit.nair@example.com', 'Sales', 'Sales Manager', 65000, '2017-05-21', 'Bangalore'),
    -> (10, 'Meera Das', 'meera.das@example.com', 'HR', 'Recruiter', 42000, '2022-04-09', 'Kolkata'),
    -> (11, 'Vikram Iyer', 'vikram.iyer@example.com', 'IT', 'Frontend Developer', 51000, '2021-09-11', 'Hyderabad'),
```

- **Inserting Data into the table.**

```
    -> (12, 'Pooja Rana', 'pooja.rana@example.com', 'Finance', 'Accountant', 46000, '2019-10-13', 'Mumbai'),
    -> (13, 'Aditya Saxena', 'aditya.saxena@example.com', 'Marketing', 'SEO Specialist', 47000, '2020-08-23', 'Pune'),
    -> (14, 'Ritika Kapoor', 'ritika.kapoor@example.com', 'HR', 'HR Executive', 38000, '2022-03-02', 'Chennai'),
    -> (15, 'Suresh Rao', 'suresh.rao@example.com', 'Support', 'Customer Support', 34000, '2019-07-27', 'Bangalore'),
    -> (16, 'Ishita Joshi', 'ishita.joshi@example.com', 'Sales', 'Sales Executive', 42000, '2021-02-18', 'Hyderabad'),
    -> (17, 'Manish Ghosh', 'manish.ghosh@example.com', 'Finance', 'Senior Accountant', 58000, '2018-06-04', 'Kolkata'),
    -> (18, 'Tanya Mishra', 'tanya.mishra@example.com', 'Marketing', 'Content Writer', 39000, '2020-11-07', 'Delhi'),
    -> (19, 'Deepak Chauhan', 'deepak.chauhan@example.com', 'IT', 'Full Stack Developer', 60000, '2019-01-19', 'Pune'),
    -> (20, 'Shivani Kulkarni', 'shivani.kulkarni@example.com', 'HR', 'HR Assistant', 36000, '2021-08-30', 'Mumbai'),
    -> (21, 'Rahul Malhotra', 'rahul.malhotra@example.com', 'IT', 'DevOps Engineer', 62000, '2018-05-15', 'Bangalore'),
    -> (22, 'Kavya Menon', 'kavya.menon@example.com', 'Finance', 'Auditor', 53000, '2019-09-20', 'Chennai'),
    -> (23, 'Ashwin Pillai', 'ashwin.pillai@example.com', 'Support', 'IT Support', 36000, '2022-01-03', 'Hyderabad'),
    -> (24, 'Divya Agarwal', 'divya.agarwal@example.com', 'Sales', 'Sales Associate', 39000, '2021-12-11', 'Delhi'),
    -> (25, 'Gaurav Bansal', 'gaurav.bansal@example.com', 'Marketing', 'Digital Marketer', 52000, '2020-04-15', 'Pune'),
    -> (26, 'Nisha Kohli', 'nisha.kohli@example.com', 'HR', 'Recruiter', 41000, '2019-10-08', 'Kolkata'),
    -> (27, 'Akash Yadav', 'akash.yadav@example.com', 'IT', 'Software Engineer', 56000, '2021-07-02', 'Hyderabad'),
    -> (28, 'Simran Gill', 'simran.gill@example.com', 'Finance', 'Accountant', 44000, '2018-09-25', 'Delhi'),
    -> (29, 'Harsh Tiwari', 'harsh.tiwari@example.com', 'Sales', 'Sales Executive', 40000, '2020-06-12', 'Mumbai'),
    -> (30, 'Rina Paul', 'rina.paul@example.com', 'Marketing', 'Market Researcher', 48000, '2019-11-30', 'Chennai'),
    -> (31, 'Sameer Chatterjee', 'sameer.chatterjee@example.com', 'Support', 'Customer Support', 35000, '2022-05-17', 'Bangalore'),
    -> (32, 'Alok Singhania', 'alok.singhania@example.com', 'Finance', 'Financial Analyst', 51000, '2021-04-29', 'Delhi'),
    -> (33, 'Pallavi Naidu', 'pallavi.naidu@example.com', 'IT', 'Frontend Developer', 50000, '2020-09-19', 'Hyderabad'),
    -> (34, 'Suraj Bhatt', 'suraj.bhatt@example.com', 'Sales', 'Sales Manager', 64000, '2018-08-13', 'Mumbai'),
    -> (35, 'Kiran Deshmukh', 'kiran.deshmukh@example.com', 'Marketing', 'Brand Manager', 59000, '2019-05-04', 'Pune'),
    -> (36, 'Anil Sen', 'anil.sen@example.com', 'HR', 'HR Executive', 37000, '2021-03-23', 'Chennai'),
    -> (37, 'Swati Banerjee', 'swati.banerjee@example.com', 'Finance', 'Auditor', 52000, '2020-02-14', 'Delhi'),
    -> (38, 'Vikas Chopra', 'vikas.chopra@example.com', 'IT', 'Backend Developer', 54000, '2018-12-01', 'Hyderabad'),
    -> (39, 'Monica Roy', 'monica.roy@example.com', 'Sales', 'Sales Associate', 41000, '2019-08-21', 'Kolkata'),
    -> (40, 'Ramesh Kashyap', 'ramesh.kashyap@example.com', 'Support', 'Tech Support', 34000, '2022-02-19', 'Bangalore'),
    -> (41, 'Payal Shetty', 'payal.shetty@example.com', 'Finance', 'Senior Accountant', 57000, '2021-06-16', 'Mumbai'),
    -> (42, 'Dev Kulkarni', 'dev.kulkarni@example.com', 'Marketing', 'Content Writer', 40000, '2020-07-24', 'Pune'),
    -> (43, 'Maya Srivastava', 'maya.srivastava@example.com', 'HR', 'HR Manager', 62000, '2018-03-09', 'Delhi'),
    -> (44, 'Sahil Joshi', 'sahil.joshi@example.com', 'IT', 'Full Stack Developer', 61000, '2019-09-14', 'Hyderabad'),
    -> (45, 'Vidya Rana', 'vidya.rana@example.com', 'Sales', 'Sales Executive', 42000, '2021-01-28', 'Chennai'),
    -> (46, 'Nikhil Khanna', 'nikhil.khanna@example.com', 'Finance', 'Auditor', 54000, '2017-10-05', 'Delhi'),
```

- **Retrieving the data.**


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

emp_id	emp_name	email	department	job_title	salary	hire_date	city
1	Amit Sharma	amit.sharma@example.com	IT	Software Engineer	55000.00	2021-03-15	Hyderabad
2	Priya Verma	priya.verma@example.com	HR	HR Manager	60000.00	2019-07-10	Bangalore
3	Raj Patel	raj.patel@example.com	Finance	Accountant	45000.00	2020-11-22	Delhi
4	Sneha Reddy	sneha.reddy@example.com	Sales	Sales Executive	40000.00	2022-01-12	Mumbai
5	Karan Mehta	karan.mehta@example.com	Marketing	Marketing Analyst	48000.00	2021-06-25	Chennai
6	Neha Singh	neha.singh@example.com	IT	Backend Developer	52000.00	2019-09-18	Hyderabad
7	Arjun Kumar	arjun.kumar@example.com	Support	Tech Support	35000.00	2020-02-14	Pune
8	Ananya Gupta	ananya.gupta@example.com	Finance	Financial Analyst	50000.00	2018-12-05	Delhi
9	Rohit Nair	rohit.nair@example.com	Sales	Sales Manager	65000.00	2017-05-21	Bangalore
10	Meera Das	meera.das@example.com	HR	Recruiter	42000.00	2022-04-09	Kolkata
11	Vikram Iyer	vikram.iyer@example.com	IT	Frontend Developer	51000.00	2021-09-11	Hyderabad
12	Pooja Rana	pooja.rana@example.com	Finance	Accountant	46000.00	2019-10-13	Mumbai
13	Aditya Saxena	aditya.saxena@example.com	Marketing	SEO Specialist	47000.00	2020-08-23	Pune
14	Ritika Kapoor	ritika.kapoor@example.com	HR	HR Executive	38000.00	2022-03-02	Chennai
15	Suresh Rao	suresh.rao@example.com	Support	Customer Support	34000.00	2019-07-27	Bangalore
16	Ishita Joshi	ishita.joshi@example.com	Sales	Sales Executive	42000.00	2021-02-18	Hyderabad
17	Manish Ghosh	manish.ghosh@example.com	Finance	Senior Accountant	58000.00	2018-06-04	Kolkata
18	Tanya Mishra	tanya.mishra@example.com	Marketing	Content Writer	39000.00	2020-11-07	Delhi
19	Deepak Chauhan	deepak.chauhan@example.com	IT	Full Stack Developer	60000.00	2019-01-19	Pune
20	Shivani Kulkarni	shivani.kulkarni@example.com	HR	HR Assistant	36000.00	2021-08-30	Mumbai
21	Rahul Malhotra	rahul.malhotra@example.com	IT	DevOps Engineer	62000.00	2018-05-15	Bangalore
22	Kavya Menon	kavya.menon@example.com	Finance	Auditor	53000.00	2019-09-20	Chennai
23	Ashwin Pillai	ashwin.pillai@example.com	Support	IT Support	36000.00	2022-01-03	Hyderabad
24	Divya Agarwal	divya.agarwal@example.com	Sales	Sales Associate	39000.00	2021-12-11	Delhi
25	Gaurav Bansal	gaurav.bansal@example.com	Marketing	Digital Marketer	52000.00	2020-04-15	Pune
26	Nisha Kohli	nisha.kohli@example.com	HR	Recruiter	41000.00	2019-10-08	Kolkata
27	Akash Yadav	akash.yadav@example.com	IT	Software Engineer	56000.00	2021-07-02	Hyderabad
28	Simran Gill	simran.gill@example.com	Finance	Accountant	44000.00	2018-09-25	Delhi
29	Harsh Tiwari	harsh.tiwari@example.com	Sales	Sales Executive	40000.00	2020-06-12	Mumbai
30	Rina Paul	rina.paul@example.com	Marketing	Market Researcher	48000.00	2019-11-30	Chennai
31	Sameer Chatterjee	sameer.chatterjee@example.com	Support	Customer Support	35000.00	2022-05-17	Bangalore
32	Alok Singhania	alok.singhania@example.com	Finance	Financial Analyst	51000.00	2021-04-29	Delhi
33	Pallavi Naidu	pallavi.naidu@example.com	IT	Frontend Developer	50000.00	2020-09-19	Hyderabad

DDL

1. Add a new column phone_no to employees table.


```
mysql> alter table employee add phone_no bigint;
Query OK, 0 rows affected (0.07 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from employee;
```

emp_id	emp_name	email	department	job_title	salary	hire_date	city	phone_no
1	Amit Sharma	amit.sharma@example.com	IT	Software Engineer	55000.00	2021-03-15	Hyderabad	NULL
2	Priya Verma	priya.verma@example.com	HR	HR Manager	60000.00	2019-07-10	Bangalore	NULL
3	Raj Patel	raj.patel@example.com	Finance	Accountant	45000.00	2020-11-22	Delhi	NULL
4	Sneha Reddy	sneha.reddy@example.com	Sales	Sales Executive	40000.00	2022-01-12	Mumbai	NULL
5	Karan Mehta	karan.mehta@example.com	Marketing	Marketing Analyst	48000.00	2021-06-25	Chennai	NULL
6	Neha Singh	neha.singh@example.com	IT	Backend Developer	52000.00	2019-09-18	Hyderabad	NULL
7	Arjun Kumar	arjun.kumar@example.com	Support	Tech Support	35000.00	2020-02-14	Pune	NULL
8	Ananya Gupta	ananya.gupta@example.com	Finance	Financial Analyst	50000.00	2018-12-05	Delhi	NULL
9	Rohit Nair	rohit.nair@example.com	Sales	Sales Manager	65000.00	2017-05-21	Bangalore	NULL
10	Meera Das	meera.das@example.com	HR	Recruiter	42000.00	2022-04-09	Kolkata	NULL
11	Vikram Iyer	vikram.iyer@example.com	IT	Frontend Developer	51000.00	2021-09-11	Hyderabad	NULL
12	Pooja Rana	pooja.rana@example.com	Finance	Accountant	46000.00	2019-10-13	Mumbai	NULL
13	Aditya Saxena	aditya.saxena@example.com	Marketing	SEO Specialist	47000.00	2020-08-23	Pune	NULL
14	Ritika Kapoor	ritika.kapoor@example.com	HR	HR Executive	38000.00	2022-03-02	Chennai	NULL
15	Suresh Rao	suresh.rao@example.com	Support	Customer Support	34000.00	2019-07-27	Bangalore	NULL
16	Ishita Joshi	ishita.joshi@example.com	Sales	Sales Executive	42000.00	2021-02-18	Hyderabad	NULL
17	Manish Ghosh	manish.ghosh@example.com	Finance	Senior Accountant	58000.00	2018-06-04	Kolkata	NULL
18	Tanya Mishra	tanya.mishra@example.com	Marketing	Content Writer	39000.00	2020-11-07	Delhi	NULL
19	Deepak Chauhan	deepak.chauhan@example.com	IT	Full Stack Developer	60000.00	2019-01-19	Pune	NULL
20	Shivani Kulkarni	shivani.kulkarni@example.com	HR	HR Assistant	36000.00	2021-08-30	Mumbai	NULL
21	Rahul Malhotra	rahul.malhotra@example.com	IT	DevOps Engineer	62000.00	2018-05-15	Bangalore	NULL
22	Kavya Menon	kavya.menon@example.com	Finance	Auditor	53000.00	2019-09-20	Chennai	NULL
23	Ashwin Pillai	ashwin.pillai@example.com	Support	IT Support	36000.00	2022-01-03	Hyderabad	NULL
24	Divya Agarwal	divya.agarwal@example.com	Sales	Sales Associate	39000.00	2021-12-11	Delhi	NULL
25	Gaurav Bansal	gaurav.bansal@example.com	Marketing	Digital Marketer	52000.00	2020-04-15	Pune	NULL
26	Nisha Kohli	nisha.kohli@example.com	HR	Recruiter	41000.00	2019-10-08	Kolkata	NULL
27	Akash Yadav	akash.yadav@example.com	IT	Software Engineer	56000.00	2021-07-02	Hyderabad	NULL
28	Simran Gill	simran.gill@example.com	Finance	Accountant	44000.00	2018-09-25	Delhi	NULL
29	Harsh Tiwari	harsh.tiwari@example.com	Sales	Sales Executive	40000.00	2020-06-12	Mumbai	NULL
30	Rina Paul	rina.paul@example.com	Marketing	Market Researcher	48000.00	2019-11-30	Chennai	NULL
31	Sameer Chatterjee	sameer.chatterjee@example.com	Support	Customer Support	35000.00	2022-05-17	Bangalore	NULL
32	Alok Singhania	alok.singhania@example.com	Finance	Financial Analyst	51000.00	2021-04-29	Delhi	NULL
33	Pallavi Naidu	pallavi.naidu@example.com	IT	Frontend Developer	50000.00	2020-09-19	Hyderabad	NULL
34	Suraj Bhatt	suraj.bhatt@example.com	Sales	Sales Manager	64000.00	2018-08-13	Mumbai	NULL
35	Kiran Deshmukh	kiran.deshmukh@example.com	Marketing	Brand Manager	59000.00	2019-05-04	Pune	NULL

2. Drop the column phone_no from employees table.

```
mysql> alter table employee drop phone_no ;
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from employee;
+--------+-----------------+---------------------------------+------------+-------------------+----------+------------+-----------+
| emp_id | emp_name        | email                           | department | job_title         | salary   | hire_date  | city      |
+--------+-----------------+---------------------------------+------------+-------------------+----------+------------+-----------+
|      1 | Amit Sharma     | amit.sharma@example.com         | IT         | Software Engineer | 55000.00 | 2021-03-15 | Hyderabad |
|      2 | Priya Verma     | priya.verma@example.com         | HR         | HR Manager        | 60000.00 | 2019-07-10 | Bangalore |
|      3 | Raj Patel       | raj.patel@example.com           | Finance    | Accountant        | 45000.00 | 2020-11-22 | Delhi     |
|      4 | Sneha Reddy     | sneha.reddy@example.com         | Sales      | Sales Executive   | 40000.00 | 2022-01-12 | Mumbai    |
|      5 | Karan Mehta     | karan.mehta@example.com         | Marketing  | Marketing Analyst | 48000.00 | 2021-06-25 | Chennai   |
|      6 | Neha Singh      | neha.singh@example.com          | IT         | Backend Developer | 52000.00 | 2019-09-18 | Hyderabad |
|      7 | Arjun Kumar     | arjun.kumar@example.com         | Support    | Tech Support      | 35000.00 | 2020-02-14 | Pune      |
|      8 | Ananya Gupta    | ananya.gupta@example.com        | Finance    | Financial Analyst | 50000.00 | 2018-12-05 | Delhi     |
|      9 | Rohit Nair      | rohit.nair@example.com          | Sales      | Sales Manager     | 65000.00 | 2017-05-21 | Bangalore |
|     10 | Meera Das       | meera.das@example.com           | HR         | Recruiter         | 42000.00 | 2022-04-09 | Kolkata   |
|     11 | Vikram Iyer     | vikram.iyer@example.com         | IT         | Frontend Developer| 51000.00 | 2021-09-11 | Hyderabad |
|     12 | Pooja Rana      | pooja.rana@example.com          | Finance    | Accountant        | 46000.00 | 2019-10-13 | Mumbai    |
|     13 | Aditya Saxena   | aditya.saxena@example.com       | Marketing  | SEO Specialist    | 47000.00 | 2020-08-23 | Pune      |
|     14 | Ritika Kapoor   | ritika.kapoor@example.com       | HR         | HR Executive      | 38000.00 | 2022-03-02 | Chennai   |
|     15 | Suresh Rao      | suresh.rao@example.com          | Support    | Customer Support  | 34000.00 | 2019-07-27 | Bangalore |
|     16 | Ishita Joshi    | ishita.joshi@example.com        | Sales      | Sales Executive   | 42000.00 | 2021-02-18 | Hyderabad |
|     17 | Manish Ghosh    | manish.ghosh@example.com        | Finance    | Senior Accountant | 58000.00 | 2018-06-04 | Kolkata   |
|     18 | Tanya Mishra    | tanya.mishra@example.com        | Marketing  | Content Writer    | 39000.00 | 2020-11-07 | Delhi     |
|     19 | Deepak Chauhan  | deepak.chauhan@example.com      | IT         | Full Stack Developer| 60000.00 | 2019-01-19 | Pune    |
|     20 | Shivani Kulkarni| shivani.kulkarni@example.com    | HR         | HR Assistant      | 36000.00 | 2021-08-30 | Mumbai    |
|     21 | Rahul Malhotra  | rahul.malhotra@example.com      | IT         | DevOps Engineer   | 62000.00 | 2018-05-15 | Bangalore |
|     22 | Kavya Menon     | kavya.menon@example.com         | Finance    | Auditor           | 53000.00 | 2019-09-20 | Chennai   |
|     23 | Ashwin Pillai   | ashwin.pillai@example.com       | Support    | IT Support        | 36000.00 | 2022-01-03 | Hyderabad |
|     24 | Divya Agarwal   | divya.agarwal@example.com       | Sales      | Sales Associate   | 39000.00 | 2021-12-11 | Delhi     |
|     25 | Gaurav Bansal   | gaurav.bansal@example.com       | Marketing  | Digital Marketer  | 52000.00 | 2020-04-15 | Pune      |
|     26 | Nisha Kohli     | nisha.kohli@example.com         | HR         | Recruiter         | 41000.00 | 2019-10-08 | Kolkata   |
|     27 | Akash Yadav     | akash.yadav@example.com         | IT         | Software Engineer | 56000.00 | 2021-07-02 | Hyderabad |
|     28 | Simran Gill     | simran.gill@example.com         | Finance    | Accountant        | 44000.00 | 2018-09-25 | Delhi     |
|     29 | Harsh Tiwari    | harsh.tiwari@example.com        | Sales      | Sales Executive   | 40000.00 | 2020-06-12 | Mumbai    |
|     30 | Rina Paul       | rina.paul@example.com           | Marketing  | Market Researcher | 48000.00 | 2019-11-30 | Chennai   |
|     31 | Sameer Chatterjee| sameer.chatterjee@example.com  | Support    | Customer Support  | 35000.00 | 2022-05-17 | Bangalore |
|     32 | Alok Singhania  | alok.singhania@example.com      | Finance    | Financial Analyst | 51000.00 | 2021-04-29 | Delhi     |
|     33 | Pallavi Naidu   | pallavi.naidu@example.com       | IT         | Frontend Developer| 50000.00 | 2020-09-19 | Hyderabad |
|     34 | Suraj Bhatt     | suraj.bhatt@example.com         | Sales      | Sales Manager     | 64000.00 | 2018-08-13 | Mumbai    |
|     35 | Kiran Deshmukh  | kiran.deshmukh@example.com      | Marketing  | Brand Manager     | 59000.00 | 2019-05-04 | Pune      |
+--------+-----------------+---------------------------------+------------+-------------------+----------+------------+-----------+
```

3. Rename the column hire_date to joining_date.

```
mysql> alter table employee
    -> rename column hire_date to join_date;
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> select * from employee;
+--------+-----------------+---------------------------------+------------+-------------------+----------+------------+-----------+
| emp_id | emp_name        | email                           | department | job_title         | salary   | join_date  | city      |
+--------+-----------------+---------------------------------+------------+-------------------+----------+------------+-----------+
|      1 | Amit Sharma     | amit.sharma@example.com         | IT         | Software Engineer | 55000.00 | 2021-03-15 | Hyderabad |
|      2 | Priya Verma     | priya.verma@example.com         | HR         | HR Manager        | 60000.00 | 2019-07-10 | Bangalore |
|      3 | Raj Patel       | raj.patel@example.com           | Finance    | Accountant        | 45000.00 | 2020-11-22 | Delhi     |
|      4 | Sneha Reddy     | sneha.reddy@example.com         | Sales      | Sales Executive   | 40000.00 | 2022-01-12 | Mumbai    |
|      5 | Karan Mehta     | karan.mehta@example.com         | Marketing  | Marketing Analyst | 48000.00 | 2021-06-25 | Chennai   |
|      6 | Neha Singh      | neha.singh@example.com          | IT         | Backend Developer | 52000.00 | 2019-09-18 | Hyderabad |
|      7 | Arjun Kumar     | arjun.kumar@example.com         | Support    | Tech Support      | 35000.00 | 2020-02-14 | Pune      |
|      8 | Ananya Gupta    | ananya.gupta@example.com        | Finance    | Financial Analyst | 50000.00 | 2018-12-05 | Delhi     |
|      9 | Rohit Nair      | rohit.nair@example.com          | Sales      | Sales Manager     | 65000.00 | 2017-05-21 | Bangalore |
|     10 | Meera Das       | meera.das@example.com           | HR         | Recruiter         | 42000.00 | 2022-04-09 | Kolkata   |
|     11 | Vikram Iyer     | vikram.iyer@example.com         | IT         | Frontend Developer| 51000.00 | 2021-09-11 | Hyderabad |
|     12 | Pooja Rana      | pooja.rana@example.com          | Finance    | Accountant        | 46000.00 | 2019-10-13 | Mumbai    |
|     13 | Aditya Saxena   | aditya.saxena@example.com       | Marketing  | SEO Specialist    | 47000.00 | 2020-08-23 | Pune      |
|     14 | Ritika Kapoor   | ritika.kapoor@example.com       | HR         | HR Executive      | 38000.00 | 2022-03-02 | Chennai   |
|     15 | Suresh Rao      | suresh.rao@example.com          | Support    | Customer Support  | 34000.00 | 2019-07-27 | Bangalore |
|     16 | Ishita Joshi    | ishita.joshi@example.com        | Sales      | Sales Executive   | 42000.00 | 2021-02-18 | Hyderabad |
|     17 | Manish Ghosh    | manish.ghosh@example.com        | Finance    | Senior Accountant | 58000.00 | 2018-06-04 | Kolkata   |
|     18 | Tanya Mishra    | tanya.mishra@example.com        | Marketing  | Content Writer    | 39000.00 | 2020-11-07 | Delhi     |
|     19 | Deepak Chauhan  | deepak.chauhan@example.com      | IT         | Full Stack Developer| 60000.00 | 2019-01-19 | Pune    |
|     20 | Shivani Kulkarni| shivani.kulkarni@example.com    | HR         | HR Assistant      | 36000.00 | 2021-08-30 | Mumbai    |
|     21 | Rahul Malhotra  | rahul.malhotra@example.com      | IT         | DevOps Engineer   | 62000.00 | 2018-05-15 | Bangalore |
|     22 | Kavya Menon     | kavya.menon@example.com         | Finance    | Auditor           | 53000.00 | 2019-09-20 | Chennai   |
|     23 | Ashwin Pillai   | ashwin.pillai@example.com       | Support    | IT Support        | 36000.00 | 2022-01-03 | Hyderabad |
|     24 | Divya Agarwal   | divya.agarwal@example.com       | Sales      | Sales Associate   | 39000.00 | 2021-12-11 | Delhi     |
|     25 | Gaurav Bansal   | gaurav.bansal@example.com       | Marketing  | Digital Marketer  | 52000.00 | 2020-04-15 | Pune      |
|     26 | Nisha Kohli     | nisha.kohli@example.com         | HR         | Recruiter         | 41000.00 | 2019-10-08 | Kolkata   |
|     27 | Akash Yadav     | akash.yadav@example.com         | IT         | Software Engineer | 56000.00 | 2021-07-02 | Hyderabad |
|     28 | Simran Gill     | simran.gill@example.com         | Finance    | Accountant        | 44000.00 | 2018-09-25 | Delhi     |
|     29 | Harsh Tiwari    | harsh.tiwari@example.com        | Sales      | Sales Executive   | 40000.00 | 2020-06-12 | Mumbai    |
|     30 | Rina Paul       | rina.paul@example.com           | Marketing  | Market Researcher | 48000.00 | 2019-11-30 | Chennai   |
|     31 | Sameer Chatterjee| sameer.chatterjee@example.com  | Support    | Customer Support  | 35000.00 | 2022-05-17 | Bangalore |
|     32 | Alok Singhania  | alok.singhania@example.com      | Finance    | Financial Analyst | 51000.00 | 2021-04-29 | Delhi     |
|     33 | Pallavi Naidu   | pallavi.naidu@example.com       | IT         | Frontend Developer| 50000.00 | 2020-09-19 | Hyderabad |
|     34 | Suraj Bhatt     | suraj.bhatt@example.com         | Sales      | Sales Manager     | 64000.00 | 2018-08-13 | Mumbai    |
+--------+-----------------+---------------------------------+------------+-------------------+----------+------------+-----------+
```

DML

1. Insert a new employee into the IT department.

```
at line 4
mysql> insert into employee(emp_id,emp_name,email,department,job_title,salary,join_date,city) values(
    -> 51, 'Abdul Jai Ram', 'abduljai.ram@example.com', 'IT', 'Software Engineer', 40000, '2025-10-28', 'Vizag');
Query OK, 1 row affected (0.03 sec)

mysql> select * from employee;
+--------+------------------+----------------------------+------------+--------------------+----------+------------+-----------+
| emp_id | emp_name         | email                      | department | job_title          | salary   | join_date  | city      |
+--------+------------------+----------------------------+------------+--------------------+----------+------------+-----------+
|      1 | Amit Sharma      | amit.sharma@example.com    | IT         | Software Engineer  | 55000.00 | 2021-03-15 | Hyderabad |
|      2 | Priya Verma      | priya.verma@example.com    | HR         | HR Manager         | 60000.00 | 2019-07-10 | Bangalore |
|      3 | Raj Patel        | raj.patel@example.com      | Finance    | Accountant         | 45000.00 | 2020-11-22 | Delhi     |
|      4 | Sneha Reddy      | sneha.reddy@example.com    | Sales      | Sales Executive    | 40000.00 | 2022-01-12 | Mumbai    |
|      5 | Karan Mehta      | karan.mehta@example.com    | Marketing  | Marketing Analyst  | 48000.00 | 2021-06-25 | Chennai   |
|      6 | Neha Singh       | neha.singh@example.com     | IT         | Backend Developer  | 52000.00 | 2019-09-18 | Hyderabad |
|      7 | Arjun Kumar      | arjun.kumar@example.com    | Support    | Tech Support       | 35000.00 | 2020-02-14 | Pune      |
|      8 | Ananya Gupta     | ananya.gupta@example.com   | Finance    | Financial Analyst  | 50000.00 | 2018-12-05 | Delhi     |
|      9 | Rohit Nair       | rohit.nair@example.com     | Sales      | Sales Manager      | 65000.00 | 2017-05-21 | Bangalore |
|     10 | Meera Das        | meera.das@example.com      | HR         | Recruiter          | 42000.00 | 2022-04-09 | Kolkata   |
|     11 | Vikram Iyer      | vikram.iyer@example.com    | IT         | Frontend Developer | 51000.00 | 2021-09-11 | Hyderabad |
|     12 | Pooja Rana       | pooja.rana@example.com     | Finance    | Accountant         | 46000.00 | 2019-10-13 | Mumbai    |
|     13 | Aditya Saxena    | aditya.saxena@example.com  | Marketing  | SEO Specialist     | 47000.00 | 2020-08-23 | Pune      |
|     14 | Ritika Kapoor    | ritika.kapoor@example.com  | HR         | HR Executive       | 38000.00 | 2022-03-02 | Chennai   |
|     15 | Suresh Rao       | suresh.rao@example.com     | Support    | Customer Support   | 34000.00 | 2019-07-27 | Bangalore |
|     16 | Ishita Joshi     | ishita.joshi@example.com   | Sales      | Sales Executive    | 42000.00 | 2021-02-18 | Hyderabad |
|     17 | Manish Ghosh     | manish.ghosh@example.com   | Finance    | Senior Accountant  | 58000.00 | 2018-06-04 | Kolkata   |
|     18 | Tanya Mishra     | tanya.mishra@example.com   | Marketing  | Content Writer     | 39000.00 | 2020-11-07 | Delhi     |
|     19 | Deepak Chauhan   | deepak.chauhan@example.com | IT         | Full Stack Developer| 60000.00| 2019-01-19 | Pune      |
|     20 | Shivani Kulkarni | shivani.kulkarni@example.com| HR        | HR Assistant       | 36000.00 | 2021-08-30 | Mumbai    |
|     21 | Rahul Malhotra   | rahul.malhotra@example.com | IT         | DevOps Engineer    | 62000.00 | 2018-05-15 | Bangalore |
|     22 | Kavya Menon      | kavya.menon@example.com    | Finance    | Auditor            | 53000.00 | 2019-09-20 | Chennai   |
|     23 | Ashwin Pillai    | ashwin.pillai@example.com  | Support    | IT Support         | 36000.00 | 2022-01-03 | Hyderabad |
|     24 | Divya Agarwal    | divya.agarwal@example.com  | Sales      | Sales Associate    | 39000.00 | 2021-12-11 | Delhi     |
|     25 | Gaurav Bansal    | gaurav.bansal@example.com  | Marketing  | Digital Marketer   | 52000.00 | 2020-04-15 | Pune      |
|     26 | Nisha Kohli      | nisha.kohli@example.com    | HR         | Recruiter          | 41000.00 | 2019-10-08 | Kolkata   |
|     27 | Akash Yadav      | akash.yadav@example.com    | IT         | Software Engineer  | 56000.00 | 2021-07-02 | Hyderabad |
|     28 | Simran Gill      | simran.gill@example.com    | Finance    | Accountant         | 44000.00 | 2018-09-25 | Delhi     |
|     29 | Harsh Tiwari     | harsh.tiwari@example.com   | Sales      | Sales Executive    | 40000.00 | 2020-06-12 | Mumbai    |
|     30 | Rina Paul        | rina.paul@example.com      | Marketing  | Market Researcher  | 48000.00 | 2019-11-30 | Chennai   |
|     31 | Sameer Chatterjee| sameer.chatterjee@example.com| Support  | Customer Support   | 35000.00 | 2022-05-17 | Bangalore |
|     32 | Alok Singhania   | alok.singhania@example.com | Finance    | Financial Analyst  | 51000.00 | 2021-04-29 | Delhi     |
|     33 | Pallavi Naidu    | pallavi.naidu@example.com  | IT         | Frontend Developer | 50000.00 | 2020-09-19 | Hyderabad |
|     34 | Suraj Bhatt      | suraj.bhatt@example.com    | Sales      | Sales Manager      | 64000.00 | 2018-08-13 | Mumbai    |
```

2. Update salary of employee with emp_id = 10 by 10%.

```
mysql> update employee set salary=salary + (salary*0.10) where emp_id=10;
Query OK, 1 row affected (0.03 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from employee;
+--------+------------------+----------------------------+------------+--------------------+----------+------------+-----------+
| emp_id | emp_name         | email                      | department | job_title          | salary   | join_date  | city      |
+--------+------------------+----------------------------+------------+--------------------+----------+------------+-----------+
|      1 | Amit Sharma      | amit.sharma@example.com    | IT         | Software Engineer  | 55000.00 | 2021-03-15 | Hyderabad |
|      2 | Priya Verma      | priya.verma@example.com    | HR         | HR Manager         | 60000.00 | 2019-07-10 | Bangalore |
|      3 | Raj Patel        | raj.patel@example.com      | Finance    | Accountant         | 45000.00 | 2020-11-22 | Delhi     |
|      4 | Sneha Reddy      | sneha.reddy@example.com    | Sales      | Sales Executive    | 40000.00 | 2022-01-12 | Mumbai    |
|      5 | Karan Mehta      | karan.mehta@example.com    | Marketing  | Marketing Analyst  | 48000.00 | 2021-06-25 | Chennai   |
|      6 | Neha Singh       | neha.singh@example.com     | IT         | Backend Developer  | 52000.00 | 2019-09-18 | Hyderabad |
|      7 | Arjun Kumar      | arjun.kumar@example.com    | Support    | Tech Support       | 35000.00 | 2020-02-14 | Pune      |
|      8 | Ananya Gupta     | ananya.gupta@example.com   | Finance    | Financial Analyst  | 50000.00 | 2018-12-05 | Delhi     |
|      9 | Rohit Nair       | rohit.nair@example.com     | Sales      | Sales Manager      | 65000.00 | 2017-05-21 | Bangalore |
|     10 | Meera Das        | meera.das@example.com      | HR         | Recruiter          | 46200.00 | 2022-04-09 | Kolkata   |
|     11 | Vikram Iyer      | vikram.iyer@example.com    | IT         | Frontend Developer | 51000.00 | 2021-09-11 | Hyderabad |
|     12 | Pooja Rana       | pooja.rana@example.com     | Finance    | Accountant         | 46000.00 | 2019-10-13 | Mumbai    |
|     13 | Aditya Saxena    | aditya.saxena@example.com  | Marketing  | SEO Specialist     | 47000.00 | 2020-08-23 | Pune      |
|     14 | Ritika Kapoor    | ritika.kapoor@example.com  | HR         | HR Executive       | 38000.00 | 2022-03-02 | Chennai   |
|     15 | Suresh Rao       | suresh.rao@example.com     | Support    | Customer Support   | 34000.00 | 2019-07-27 | Bangalore |
|     16 | Ishita Joshi     | ishita.joshi@example.com   | Sales      | Sales Executive    | 42000.00 | 2021-02-18 | Hyderabad |
|     17 | Manish Ghosh     | manish.ghosh@example.com   | Finance    | Senior Accountant  | 58000.00 | 2018-06-04 | Kolkata   |
|     18 | Tanya Mishra     | tanya.mishra@example.com   | Marketing  | Content Writer     | 39000.00 | 2020-11-07 | Delhi     |
|     19 | Deepak Chauhan   | deepak.chauhan@example.com | IT         | Full Stack Developer| 60000.00| 2019-01-19 | Pune      |
|     20 | Shivani Kulkarni | shivani.kulkarni@example.com| HR        | HR Assistant       | 36000.00 | 2021-08-30 | Mumbai    |
|     21 | Rahul Malhotra   | rahul.malhotra@example.com | IT         | DevOps Engineer    | 62000.00 | 2018-05-15 | Bangalore |
|     22 | Kavya Menon      | kavya.menon@example.com    | Finance    | Auditor            | 53000.00 | 2019-09-20 | Chennai   |
|     23 | Ashwin Pillai    | ashwin.pillai@example.com  | Support    | IT Support         | 36000.00 | 2022-01-03 | Hyderabad |
|     24 | Divya Agarwal    | divya.agarwal@example.com  | Sales      | Sales Associate    | 39000.00 | 2021-12-11 | Delhi     |
|     25 | Gaurav Bansal    | gaurav.bansal@example.com  | Marketing  | Digital Marketer   | 52000.00 | 2020-04-15 | Pune      |
|     26 | Nisha Kohli      | nisha.kohli@example.com    | HR         | Recruiter          | 41000.00 | 2019-10-08 | Kolkata   |
|     27 | Akash Yadav      | akash.yadav@example.com    | IT         | Software Engineer  | 56000.00 | 2021-07-02 | Hyderabad |
|     28 | Simran Gill      | simran.gill@example.com    | Finance    | Accountant         | 44000.00 | 2018-09-25 | Delhi     |
|     29 | Harsh Tiwari     | harsh.tiwari@example.com   | Sales      | Sales Executive    | 40000.00 | 2020-06-12 | Mumbai    |
|     30 | Rina Paul        | rina.paul@example.com      | Marketing  | Market Researcher  | 48000.00 | 2019-11-30 | Chennai   |
```

3. Delete all employees who work in "Support".

```
mysql> delete from employee where department = "support";
Query OK, 6 rows affected (0.03 sec)

mysql> select * from emplooyee;
ERROR 1146 (42S02): Table 'employeedb.emplooyee' doesn't exist
mysql> select * from employee;
+--------+-----------------+-------------------------------+------------+--------------------+----------+------------+-----------+
| emp_id | emp_name        | email                         | department | job_title          | salary   | join_date  | city      |
+--------+-----------------+-------------------------------+------------+--------------------+----------+------------+-----------+
|      1 | Amit Sharma     | amit.sharma@example.com       | IT         | Software Engineer  | 55000.00 | 2021-03-15 | Hyderabad |
|      2 | Priya Verma     | priya.verma@example.com       | HR         | HR Manager         | 60000.00 | 2019-07-10 | Bangalore |
|      3 | Raj Patel       | raj.patel@example.com         | Finance    | Accountant         | 45000.00 | 2020-11-22 | Delhi     |
|      4 | Sneha Reddy     | sneha.reddy@example.com       | Sales      | Sales Executive    | 40000.00 | 2022-01-12 | Mumbai    |
|      5 | Karan Mehta     | karan.mehta@example.com       | Marketing  | Marketing Analyst  | 48000.00 | 2021-06-25 | Chennai   |
|      6 | Neha Singh      | neha.singh@example.com        | IT         | Backend Developer  | 52000.00 | 2019-09-18 | Hyderabad |
|      8 | Ananya Gupta    | ananya.gupta@example.com      | Finance    | Financial Analyst  | 50000.00 | 2018-12-05 | Delhi     |
|      9 | Rohit Nair      | rohit.nair@example.com        | Sales      | Sales Manager      | 65000.00 | 2017-05-21 | Bangalore |
|     10 | Meera Das       | meera.das@example.com         | HR         | Recruiter          | 46200.00 | 2022-04-09 | Kolkata   |
|     11 | Vikram Iyer     | vikram.iyer@example.com       | IT         | Frontend Developer | 51000.00 | 2021-09-11 | Hyderabad |
|     12 | Pooja Rana      | pooja.rana@example.com        | Finance    | Accountant         | 46000.00 | 2019-10-13 | Mumbai    |
|     13 | Aditya Saxena   | aditya.saxena@example.com     | Marketing  | SEO Specialist     | 47000.00 | 2020-08-23 | Pune      |
|     14 | Ritika Kapoor   | ritika.kapoor@example.com     | HR         | HR Executive       | 38000.00 | 2022-03-02 | Chennai   |
|     16 | Ishita Joshi    | ishita.joshi@example.com      | Sales      | Sales Executive    | 42000.00 | 2021-02-18 | Hyderabad |
|     17 | Manish Ghosh    | manish.ghosh@example.com      | Finance    | Senior Accountant  | 58000.00 | 2018-06-04 | Kolkata   |
|     18 | Tanya Mishra    | tanya.mishra@example.com      | Marketing  | Content Writer     | 39000.00 | 2020-11-07 | Delhi     |
|     19 | Deepak Chauhan  | deepak.chauhan@example.com    | IT         | Full Stack Developer| 60000.00| 2019-01-19 | Pune      |
|     20 | Shivani Kulkarni| shivani.kulkarni@example.com  | HR         | HR Assistant       | 36000.00 | 2021-08-30 | Mumbai    |
|     21 | Rahul Malhotra  | rahul.malhotra@example.com    | IT         | DevOps Engineer    | 62000.00 | 2018-05-15 | Bangalore |
|     22 | Kavya Menon     | kavya.menon@example.com       | Finance    | Auditor            | 53000.00 | 2019-09-20 | Chennai   |
|     24 | Divya Agarwal   | divya.agarwal@example.com     | Sales      | Sales Associate    | 39000.00 | 2021-12-11 | Delhi     |
|     25 | Gaurav Bansal   | gaurav.bansal@example.com     | Marketing  | Digital Marketer   | 52000.00 | 2020-04-15 | Pune      |
|     26 | Nisha Kohli     | nisha.kohli@example.com       | HR         | Recruiter          | 41000.00 | 2019-10-08 | Kolkata   |
|     27 | Akash Yadav     | akash.yadav@example.com       | IT         | Software Engineer  | 56000.00 | 2021-07-02 | Hyderabad |
|     28 | Simran Gill     | simran.gill@example.com       | Finance    | Accountant         | 44000.00 | 2018-09-25 | Delhi     |
|     29 | Harsh Tiwari    | harsh.tiwari@example.com      | Sales      | Sales Executive    | 40000.00 | 2020-06-12 | Mumbai    |
|     30 | Rina Paul       | rina.paul@example.com         | Marketing  | Market Researcher  | 48000.00 | 2019-11-30 | Chennai   |
|     32 | Alok Singhania  | alok.singhania@example.com    | Finance    | Financial Analyst  | 51000.00 | 2021-04-29 | Delhi     |
```

DQL (SELECT Queries)

1. Fetch all employees from "Finance" department.
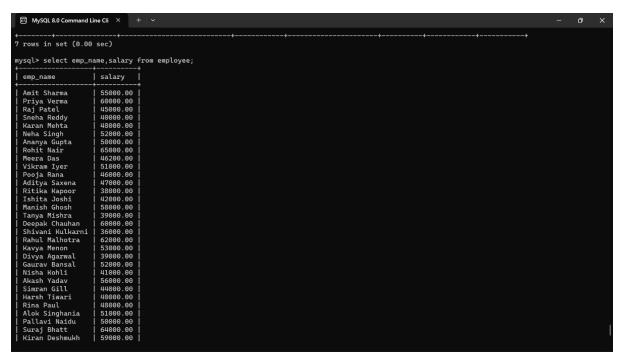2. Find employees whose salary is greater than 55,000.


```
mysql> select * from employee where department="Finance";
+--------+----------------+-----------------------------+------------+-------------------+----------+------------+---------+
| emp_id | emp_name       | email                       | department | job_title         | salary   | join_date  | city    |
+--------+----------------+-----------------------------+------------+-------------------+----------+------------+---------+
|      3 | Raj Patel      | raj.patel@example.com       | Finance    | Accountant        | 45000.00 | 2020-11-22 | Delhi   |
|      8 | Ananya Gupta   | ananya.gupta@example.com    | Finance    | Financial Analyst | 50000.00 | 2018-12-05 | Delhi   |
|     12 | Pooja Rana     | pooja.rana@example.com      | Finance    | Accountant        | 46000.00 | 2019-10-13 | Mumbai  |
|     17 | Manish Ghosh   | manish.ghosh@example.com    | Finance    | Senior Accountant | 58000.00 | 2018-06-04 | Kolkata |
|     22 | Kavya Menon    | kavya.menon@example.com     | Finance    | Auditor           | 53000.00 | 2019-09-20 | Chennai |
|     28 | Simran Gill    | simran.gill@example.com     | Finance    | Accountant        | 44000.00 | 2018-09-25 | Delhi   |
|     32 | Alok Singhania | alok.singhania@example.com  | Finance    | Financial Analyst | 51000.00 | 2021-04-29 | Delhi   |
|     37 | Swati Banerjee | swati.banerjee@example.com  | Finance    | Auditor           | 52000.00 | 2020-02-14 | Delhi   |
|     41 | Payal Shetty   | payal.shetty@example.com    | Finance    | Senior Accountant | 57000.00 | 2021-06-16 | Mumbai  |
|     46 | Nikhil Khanna  | nikhil.khanna@example.com   | Finance    | Auditor           | 54000.00 | 2017-10-05 | Delhi   |
+--------+----------------+-----------------------------+------------+-------------------+----------+------------+---------+
10 rows in set (0.00 sec)

mysql> select * from employee where salary >55000;
+--------+-----------------+------------------------------+------------+---------------------+----------+------------+-----------+
| emp_id | emp_name        | email                        | department | job_title           | salary   | join_date  | city      |
+--------+-----------------+------------------------------+------------+---------------------+----------+------------+-----------+
|      2 | Priya Verma     | priya.verma@example.com      | HR         | HR Manager          | 60000.00 | 2019-07-10 | Bangalore |
|      9 | Rohit Nair      | rohit.nair@example.com       | Sales      | Sales Manager       | 65000.00 | 2017-05-21 | Bangalore |
|     17 | Manish Ghosh    | manish.ghosh@example.com     | Finance    | Senior Accountant   | 58000.00 | 2018-06-04 | Kolkata   |
|     19 | Deepak Chauhan  | deepak.chauhan@example.com   | IT         | Full Stack Developer| 60000.00 | 2019-01-19 | Pune      |
|     21 | Rahul Malhotra  | rahul.malhotra@example.com   | IT         | DevOps Engineer     | 62000.00 | 2018-05-15 | Bangalore |
|     27 | Akash Yadav     | akash.yadav@example.com      | IT         | Software Engineer   | 56000.00 | 2021-07-02 | Hyderabad |
|     34 | Suraj Bhatt     | suraj.bhatt@example.com      | Sales      | Sales Manager       | 64000.00 | 2018-08-13 | Mumbai    |
|     35 | Kiran Deshmukh  | kiran.deshmukh@example.com   | Marketing  | Brand Manager       | 59000.00 | 2019-05-04 | Pune      |
|     41 | Payal Shetty    | payal.shetty@example.com     | Finance    | Senior Accountant   | 57000.00 | 2021-06-16 | Mumbai    |
|     43 | Maya Srivastava | maya.srivastava@example.com  | HR         | HR Manager          | 62000.00 | 2018-03-09 | Delhi     |
|     44 | Sahil Joshi     | sahil.joshi@example.com      | IT         | Full Stack Developer| 61000.00 | 2019-09-14 | Hyderabad |
|     50 | Arvind Rathi    | arvind.rathi@example.com     | IT         | DevOps Engineer     | 63000.00 | 2018-11-26 | Bangalore |
+--------+-----------------+------------------------------+------------+---------------------+----------+------------+-----------+
12 rows in set (0.02 sec)

mysql>
```

3. Show employees hired after 2020.

```
mysql> select * from employee where year(join_date)>2020;
+--------+------------------+------------------------------+------------+--------------------+----------+------------+-----------+
| emp_id | emp_name         | email                        | department | job_title          | salary   | join_date  | city      |
+--------+------------------+------------------------------+------------+--------------------+----------+------------+-----------+
|      1 | Amit Sharma      | amit.sharma@example.com      | IT         | Software Engineer  | 55000.00 | 2021-03-15 | Hyderabad |
|      4 | Sneha Reddy      | sneha.reddy@example.com      | Sales      | Sales Executive    | 40000.00 | 2022-01-12 | Mumbai    |
|      5 | Karan Mehta      | karan.mehta@example.com      | Marketing  | Marketing Analyst  | 48000.00 | 2021-06-25 | Chennai   |
|     10 | Meera Das        | meera.das@example.com        | HR         | Recruiter          | 46200.00 | 2022-04-09 | Kolkata   |
|     11 | Vikram Iyer      | vikram.iyer@example.com      | IT         | Frontend Developer | 51000.00 | 2021-09-11 | Hyderabad |
|     14 | Ritika Kapoor    | ritika.kapoor@example.com    | HR         | HR Executive       | 38000.00 | 2022-03-02 | Chennai   |
|     16 | Ishita Joshi     | ishita.joshi@example.com     | Sales      | Sales Executive    | 42000.00 | 2021-02-18 | Hyderabad |
|     20 | Shivani Kulkarni | shivani.kulkarni@example.com | HR         | HR Assistant       | 36000.00 | 2021-08-30 | Mumbai    |
|     24 | Divya Agarwal    | divya.agarwal@example.com    | Sales      | Sales Associate    | 39000.00 | 2021-12-11 | Delhi     |
|     27 | Akash Yadav      | akash.yadav@example.com      | IT         | Software Engineer  | 56000.00 | 2021-07-02 | Hyderabad |
|     32 | Alok Singhania   | alok.singhania@example.com   | Finance    | Financial Analyst  | 51000.00 | 2021-04-29 | Delhi     |
|     36 | Anil Sen         | anil.sen@example.com         | HR         | HR Executive       | 37000.00 | 2021-03-23 | Chennai   |
|     41 | Payal Shetty     | payal.shetty@example.com     | Finance    | Senior Accountant  | 57000.00 | 2021-06-16 | Mumbai    |
|     45 | Vidya Rana       | vidya.rana@example.com       | Sales      | Sales Executive    | 42000.00 | 2021-01-28 | Chennai   |
|     49 | Sonia Mann       | sonia.mann@example.com       | HR         | Recruiter          | 40000.00 | 2022-06-12 | Mumbai    |
|     51 | Abdul Jai Ram    | abduljai.ram@example.com     | IT         | Software Engineer  | 40000.00 | 2025-10-28 | Vizag     |
+--------+------------------+------------------------------+------------+--------------------+----------+------------+-----------+
16 rows in set (0.00 sec)

mysql> select * from employee where department="it" where city ="hyderabad";
```

4. List employees who are from Hyderabad and work in IT.

```
mysql> select * from employee where department="it" and city ="hyderabad";
+--------+---------------+---------------------------+------------+---------------------+----------+------------+-----------+
| emp_id | emp_name      | email                     | department | job_title           | salary   | join_date  | city      |
+--------+---------------+---------------------------+------------+---------------------+----------+------------+-----------+
|      1 | Amit Sharma   | amit.sharma@example.com   | IT         | Software Engineer   | 55000.00 | 2021-03-15 | Hyderabad |
|      6 | Neha Singh    | neha.singh@example.com    | IT         | Backend Developer   | 52000.00 | 2019-09-18 | Hyderabad |
|     11 | Vikram Iyer   | vikram.iyer@example.com   | IT         | Frontend Developer  | 51000.00 | 2021-09-11 | Hyderabad |
|     27 | Akash Yadav   | akash.yadav@example.com   | IT         | Software Engineer   | 56000.00 | 2021-07-02 | Hyderabad |
|     33 | Pallavi Naidu | pallavi.naidu@example.com | IT         | Frontend Developer  | 50000.00 | 2020-09-19 | Hyderabad |
|     38 | Vikas Chopra  | vikas.chopra@example.com  | IT         | Backend Developer   | 54000.00 | 2018-12-01 | Hyderabad |
|     44 | Sahil Joshi   | sahil.joshi@example.com   | IT         | Full Stack Developer| 61000.00 | 2019-09-14 | Hyderabad |
+--------+---------------+---------------------------+------------+---------------------+----------+------------+-----------+
7 rows in set (0.00 sec)
```

5. Retrieve only employee name and salary of all employees.

```
7 rows in set (0.00 sec)

mysql> select emp_name,salary from employee;
+------------------+----------+
| emp_name         | salary   |
+------------------+----------+
| Amit Sharma      | 55000.00 |
| Priya Verma      | 60000.00 |
| Raj Patel        | 45000.00 |
| Sneha Reddy      | 40000.00 |
| Karan Mehta      | 48000.00 |
| Neha Singh       | 52000.00 |
| Ananya Gupta     | 50000.00 |
| Rohit Nair       | 65000.00 |
| Meera Das        | 46200.00 |
| Vikram Iyer      | 51000.00 |
| Pooja Rana       | 46000.00 |
| Aditya Saxena    | 47000.00 |
| Ritika Kapoor    | 38000.00 |
| Ishita Joshi     | 42000.00 |
| Manish Ghosh     | 58000.00 |
| Tanya Mishra     | 39000.00 |
| Deepak Chauhan   | 60000.00 |
| Shivani Kulkarni | 36000.00 |
| Rahul Malhotra   | 62000.00 |
| Kavya Menon      | 53000.00 |
| Divya Agarwal    | 39000.00 |
| Gaurav Bansal    | 52000.00 |
| Nisha Kohli      | 41000.00 |
| Akash Yadav      | 56000.00 |
| Simran Gill      | 44000.00 |
| Harsh Tiwari     | 40000.00 |
| Rina Paul        | 48000.00 |
| Alok Singhania   | 51000.00 |
| Pallavi Naidu    | 50000.00 |
| Suraj Bhatt      | 64000.00 |
| Kiran Deshmukh   | 59000.00 |
```

Aggregate Functions

1. Find the average salary of employees in the IT department.
2. Count how many employees are in each department.

```
┌─ MySQL 8.0 Command Line Cli  ×    +  ∨ ─────────────────────────────────────────────────────────  ─  □  ×

| Anil Sen          | 37000.00 |
| Swati Banerjee    | 52000.00 |
| Vikas Chopra      | 54000.00 |
| Monica Roy        | 41000.00 |
| Payal Shetty      | 57000.00 |
| Dev Kulkarni      | 40000.00 |
| Maya Srivastava   | 62000.00 |
| Sahil Joshi       | 61000.00 |
| Vidya Rana        | 42000.00 |
| Nikhil Khanna     | 54000.00 |
| Varun Jain        | 53000.00 |
| Sonia Mann        | 40000.00 |
| Arvind Rathi      | 63000.00 |
| Abdul Jai Ram     | 40000.00 |
+-------------------+----------+
45 rows in set (0.00 sec)

mysql> select avg(salary) from employee;
+--------------+
| avg(salary)  |
+--------------+
| 49626.666667 |
+--------------+
1 row in set (0.03 sec)

mysql> select count(emp_id) as no_of_emp and count(deptartment) from employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to
 use near 'and count(deptartment) from employee' at line 1
mysql> select count(emp_id) as no_of_emp count(deptartment) from employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to
 use near 'count(deptartment) from employee' at line 1
mysql> select count(emp_id) as no_of_emp from employee;
+-----------+
| no_of_emp |
+-----------+
|        45 |
+-----------+
1 row in set (0.03 sec)
```

3. Find the highest salary in the company.
4. Find the lowest salary in the Finance department.
5. Show the total salary expenditure of each department.

```
┌─ MySQL 8.0 Command Line Cli  ×    +  ∨ ─────────────────────────────────────────────────────────  ─  □  ×

mysql> select department, count(emp_id) as no_of_emp from employee
    -> group by department;
+------------+-----------+
| department | no_of_emp |
+------------+-----------+
| IT         |        11 |
| HR         |         8 |
| Finance    |        10 |
| Sales      |         8 |
| Marketing  |         8 |
+------------+-----------+
5 rows in set (0.00 sec)

mysql> select max(salary) from employee;
+-------------+
| max(salary) |
+-------------+
|    65000.00 |
+-------------+
1 row in set (0.00 sec)

mysql> select min(salary) from employee;
+-------------+
| min(salary) |
+-------------+
|    36000.00 |
+-------------+
1 row in set (0.03 sec)

mysql> select sum(salary) from employee;
+-------------+
| sum(salary) |
+-------------+
|  2233200.00 |
+-------------+
1 row in set (0.00 sec)

mysql>
```