

1. CREATE TABLE Employee (  
EmployeeID INT,  
FirstName VARCHAR(50) NOT NULL,  
LastName VARCHAR(50) NOT NULL,  
Email VARCHAR(100),  
Salary DECIMAL(10,2) CHECK (Salary > 0) NOT NULL,  
HireDate VARCHAR(50)  
);

```
create table Employee (  
  EmployeeID INT,  
    FirstName VARCHAR(50) NOT NULL,  
    LastName VARCHAR(50) NOT NULL,  
    Email VARCHAR(100),  
    Salary DECIMAL(10,2) CHECK (Salary > 0) NOT NULL,  
    HireDate VARCHAR(50)  
)
```

Table created.

2. INSERT INTO Employee(EmployeeID, FirstName, LastName, Email, Salary, HireDate)  
VALUES  
(101, 'John', 'Doe', 'john.doe@hotmail.com', 50000.00, '2021-01-15'),  
(102, 'Jane', 'Smith', 'jane.smith@gmail.com', 60000.00, '2020-05-20'),  
(103, 'Alice', 'Johnson', 'alice.j@yahoo.com', 55000.00, '2019-11-10'),  
(104, 'Robert', 'Brown', 'bob.brown@hotmail.com', 45000.00, '2022-01-25'),  
(105, 'Charlie', 'Davis', 'charlie.d@mailfence.com', 70000.00, '2021-07-30');

```
INSERT INTO Employee (EmployeeID, FirstName, LastName, Email, Salary, HireDate)
VALUES
(101, 'John', 'Doe', 'john.doe@hotmail.com', 50000.00, '2021-01-15')
```

1 row(s) inserted.

---

```
INSERT INTO Employee (EmployeeID, FirstName, LastName, Email, Salary, HireDate)
VALUES
(102, 'Jane', 'Smith', 'jane.smith@gmail.com', 60000.00, '2020-05-20')
```

1 row(s) inserted.

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```
INSERT INTO Employee (EmployeeID, FirstName, LastName, Email, Salary, HireDate)
VALUES
(103, 'Alice', 'Johnson', 'alice.j@yahoo.com', 55000.00, '2019-11-10')
```

1 row(s) inserted.

---

```
INSERT INTO Employee (EmployeeID, FirstName, LastName, Email, Salary, HireDate)
VALUES
(104, 'Robert', 'Brown', 'bob.brown@hotmail.com', 45000.00, '2022-01-25')
```

1 row(s) inserted.

---

```
INSERT INTO Employee (EmployeeID, FirstName, LastName, Email, Salary, HireDate)
VALUES
(105, 'Charlie', 'Davis', 'charlie.d@mailfence.com', 70000.00, '2021-07-30')
```

1 row(s) inserted.

```
SELECT * FROM Employee
```

EMPLOYEEID	FIRSTNAME	LASTNAME	EMAIL	SALARY	HIREDATE
101	John	Doe	john.doe@hotmail.com	50000	2021-01-15
102	Jane	Smith	jane.smith@gmail.com	60000	2020-05-20
103	Alice	Johnson	alice.j@yahoo.com	55000	2019-11-10
104	Robert	Brown	bob.brown@hotmail.com	45000	2022-01-25
105	Charlie	Davis	charlie.d@mailfence.com	70000	2021-07-30

3. SELECT \* FROM Employee  
WHERE Salary > 55000

EMPLOYEEID	FIRSTNAME	LASTNAME	EMAIL	SALARY	HIREDATE
102	Jane	Smith	jane.smith@gmail.com	60000	2020-05-20
105	Charlie	Davis	charlie.d@mailfence.com	70000	2021-07-30

4. ALTER TABLE Employee  
ADD Bonus INT

EMPLOYEEID	FIRSTNAME	LASTNAME	EMAIL	SALARY	HIREDATE	BONUS
101	John	Doe	john.doe@hotmail.com	50000	2021-01-15	-
102	Jane	Smith	jane.smith@gmail.com	60000	2020-05-20	-
103	Alice	Johnson	alice.j@yahoo.com	55000	2019-11-10	-
104	Robert	Brown	bob.brown@hotmail.com	45000	2022-01-25	-
105	Charlie	Davis	charlie.d@mailfence.com	70000	2021-07-30	-

5. SELECT \* FROM Employee  
WHERE HireDate < '2021-01-01';

EMPLOYEEID	FIRSTNAME	LASTNAME	EMAIL	SALARY	HIREDATE	BONUS
102	Jane	Smith	jane.smith@gmail.com	60000	2020-05-20	-
103	Alice	Johnson	alice.j@yahoo.com	55000	2019-11-10	-

6. ALTER TABLE Employee  
RENAME COLUMN Salary to AnnualSalary;

EMPLOYEEID	FIRSTNAME	LASTNAME	EMAIL	ANNUALSALARY	HIREDATE	BONUS
101	John	Doe	john.doe@hotmail.com	50000	2021-01-15	-
102	Jane	Smith	jane.smith@gmail.com	60000	2020-05-20	-
103	Alice	Johnson	alice.j@yahoo.com	55000	2019-11-10	-
104	Robert	Brown	bob.brown@hotmail.com	45000	2022-01-25	-
105	Charlie	Davis	charlie.d@mailfence.com	70000	2021-07-30	-

7. ALTER TABLE Employee  
ADD CONSTRAINT unique\_email UNIQUE(Email);

EMPLOYEEID	FIRSTNAME	LASTNAME	EMAIL	ANNUALSALARY	HIREDATE	BONUS
101	John	Doe	john.doe@hotmail.com	50000	2021-01-15	-
102	Jane	Smith	jane.smith@gmail.com	60000	2020-05-20	-
103	Alice	Johnson	alice.j@yahoo.com	55000	2019-11-10	-
104	Robert	Brown	bob.brown@hotmail.com	45000	2022-01-25	-
105	Charlie	Davis	charlie.d@mailfence.com	70000	2021-07-30	-