

DATABASE MANAGEMENT SYSTEM (DBMS-LAB)

Schema Commands

CREATE SCHEMA COMPANY;

```
MariaDB [(none)]> CREATE SCHEMA COMPANY;  
Query OK, 1 row affected (0.002 sec)
```

SHOW DATABASES;

```
MariaDB [(none)]> SHOW DATABASES;  
+-----+  
| Database |  
+-----+  
| alumni_data |  
| company |  
| dbtest |  
| emp_dept |  
| employee_data |  
| food |  
| information_schema |  
| logindetails |  
| mysql |  
| performance_schema |  
| phpmyadmin |  
| schema_nmae |  
| school |  
| student_info |  
| studentsdata |  
| teacher_info |  
| teachers |  
| test |  
| weatherapp |  
| world |  
+-----+  
20 rows in set (0.040 sec)
```

USE COMPANY;

```
MariaDB [(none)]> USE COMPANY;  
Database changed
```

CREATING TABLE

EMPLOYEE

CREATE TABLE EMPLOYEE(

-> Fname VARCHAR(15) NOT NULL,

-> Minit CHAR,

-> Lname VARCHAR(15) NOT NULL,

-> Ssn CHAR(9) NOT NULL,

-> Bdate DATE,

-> Address VARCHAR(30),

-> Sex CHAR,

-> Salary DECIMAL(10,2),

-> Super_ssn CHAR(9),

-> Dno INT NOT NULL,

-> PRIMARY KEY(Ssn),

-> FOREIGN KEY (Dno) REFERENCES DEPARTMENT(Dname));

```
MariaDB [COMPANY]> CREATE TABLE EMPLOYEE(  
  -> Fname VARCHAR(15) NOT NULL,  
  -> Minit CHAR,  
  -> Lname VARCHAR(15) NOT NULL,  
  -> Ssn CHAR(9) NOT NULL,  
  -> Bdate DATE,  
  -> Address VARCHAR(30),  
  -> Sex CHAR,  
  -> Salary DECIMAL(10,2),  
  -> Super_ssn CHAR(9),  
  -> Dno INT NOT NULL,  
  -> PRIMARY KEY(Ssn));  
Query OK, 0 rows affected (0.039 sec)
```

DEPARTMENT

CREATE TABLE DEPARTMENT(
 -> Dname VARCHAR(15) NOT NULL,
 -> Dnumber INT NOT NULL,
 -> Mgr_ssn CHAR(9) NOT NULL,
 -> Mgr_start_date DATE,
 -> PRIMARY KEY(Dnumber),
 -> UNIQUE (Dname),
 -> FOREIGN KEY (Mgr_ssn) REFERENCES EMPLOYEE(Ssn));

```
MariaDB [COMPANY]> CREATE TABLE DEPARTMENT(  
  -> Dname VARCHAR(15) NOT NULL,  
  -> Dnumber INT NOT NULL,  
  -> Mgr_ssn CHAR(9) NOT NULL,  
  -> Mgr_start_date DATE,  
  -> PRIMARY KEY(Dnumber),  
  -> UNIQUE (Dname),  
  -> FOREIGN KEY (Mgr_ssn) REFERENCES EMPLOYEE(Ssn) );  
Query OK, 0 rows affected (0.039 sec)
```

DEPT LOCATIONS

CREATE TABLE DEPT_LOCATIONS(

-> Dnumber INT NOT NULL,

-> Dlocation VARCHAR(15) NOT NULL,

-> PRIMARY KEY (Dnumber, Dlocation),

-> FOREIGN KEY (Dnumber) REFERENCES DEPARTMENT(Dnumber));

```
MariaDB [COMPANY]> CREATE TABLE DEPT_LOCATIONS(  
  -> Dnumber INT NOT NULL,  
  -> Dlocation VARCHAR(15) NOT NULL,  
  -> PRIMARY KEY (Dnumber, Dlocation),  
  -> FOREIGN KEY (Dnumber) REFERENCES DEPARTMENT(Dnumber) );  
Query OK, 0 rows affected (0.025 sec)
```

PROJECT

CREATE TABLE PROJECT(

-> Pname VARCHAR(15) NOT NULL,

-> Pnumber INT NOT NULL,

-> Plocation VARCHAR(15) NOT NULL,

-> Dnum INT NOT NULL,

-> PRIMARY KEY (Pnumber),

-> UNIQUE (Pname),

-> FOREIGN KEY (Dnum) REFERENCES DEPARTMENT(Dnumber));

```
MariaDB [COMPANY]> CREATE TABLE PROJECT(  
  -> Pname VARCHAR(15) NOT NULL,  
  -> Pnumber INT NOT NULL,  
  -> Plocation VARCHAR(15) NOT NULL,  
  -> Dnum INT NOT NULL,  
  -> PRIMARY KEY (Pnumber),  
  -> UNIQUE (Pname),  
  -> FOREIGN KEY (Dnum) REFERENCES DEPARTMENT(Dnumber) );  
Query OK, 0 rows affected (0.041 sec)
```

WORKS ON

CREATE TABLE WORKS_ON(

- > Essn CHAR(9) NOT NULL,
- > Pno INT NOT NULL,
- > Hours DECIMAL(3,1) NOT NULL,
- > PRIMARY KEY (Essn, Pno),
- > FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn),
- > FOREIGN KEY (Pno) REFERENCES PROJECT(Pnumber));

```
MariaDB [COMPANY]> CREATE TABLE WORKS_ON(
  -> Essn CHAR(9) NOT NULL,
  -> Pno INT NOT NULL,
  -> Hours DECIMAL(3,1) NOT NULL,
  -> PRIMARY KEY (Essn, Pno),
  -> FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn),
  -> FOREIGN KEY (Pno) REFERENCES PROJECT(Pnumber) );
Query OK, 0 rows affected (0.040 sec)
```

DEPENDENT

CREATE TABLE DEPENDENT(

- > Essn CHAR(9) NOT NULL,
- > Dependent_name VARCHAR(15) NOT NULL,
- > Sex CHAR,
- > Bdate DATE,
- > Relationship VARCHAR(8),
- > PRIMARY KEY (Essn, Dependent_name),
- > FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn));

```

MariaDB [COMPANY]> CREATE TABLE DEPENDENT(
  -> Essn CHAR(9) NOT NULL,
  -> Dependent_name VARCHAR(15) NOT NULL,
  -> Sex CHAR,
  -> Bdate DATE,
  -> Relationship VARCHAR(8),
  -> PRIMARY KEY (Essn, Dependent_name),
  -> FOREIGN KEY (Essn) REFERENCES EMPLOYEE(Ssn) );
Query OK, 0 rows affected (0.036 sec)

```

SHOW TABLES IN THE DATABASE

```

MariaDB [COMPANY]> SHOW TABLES;
+-----+
| Tables_in_company |
+-----+
| department         |
| dependent           |
| dept_locations     |
| employee           |
| project            |
| works_on           |
+-----+
6 rows in set (0.001 sec)

```

SHOWING TABLES THROUGH DESC COMMAND

```

MariaDB [Company]> DESC EMPLOYEE;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Fname      | varchar(15)   | NO   |     | NULL    |       |
| Minit      | char(1)       | YES  |     | NULL    |       |
| Lname      | varchar(15)   | NO   |     | NULL    |       |
| Ssn        | char(9)       | NO   | PRI | NULL    |       |
| Bdate      | date          | YES  |     | NULL    |       |
| Address     | varchar(30)   | YES  |     | NULL    |       |
| Sex        | char(1)       | YES  |     | NULL    |       |
| Salary     | decimal(10,2) | YES  |     | NULL    |       |
| Super_ssn  | char(9)       | YES  |     | NULL    |       |
| Dno        | int(11)       | NO   | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.025 sec)

```

```
MariaDB [COMPANY]> DESC DEPARTMENT;
```

Field	Type	Null	Key	Default	Extra
Dname	varchar(15)	NO	UNI	NULL	
Dnumber	int(11)	NO	PRI	NULL	
Mgr_ssn	char(9)	NO	MUL	NULL	
Mgr_start_date	date	YES		NULL	

```
4 rows in set (0.019 sec)
```

```
MariaDB [COMPANY]> DESC DEPT_LOCATIONS;
```

Field	Type	Null	Key	Default	Extra
Dnumber	int(11)	NO	PRI	NULL	
Dlocation	varchar(15)	NO	PRI	NULL	

```
2 rows in set (0.018 sec)
```

```
MariaDB [COMPANY]> DESC PROJECT;
```

Field	Type	Null	Key	Default	Extra
Pname	varchar(15)	NO	UNI	NULL	
Pnumber	int(11)	NO	PRI	NULL	
Plocation	varchar(15)	NO		NULL	
Dnum	int(11)	NO	MUL	NULL	

```
4 rows in set (0.022 sec)
```

```
MariaDB [COMPANY]> DESC WORKS_ON;
```

Field	Type	Null	Key	Default	Extra
Essn	char(9)	NO	PRI	NULL	
Pno	int(11)	NO	PRI	NULL	
Hours	decimal(3,1)	NO		NULL	

```
3 rows in set (0.019 sec)
```

```
MariaDB [COMPANY]> DESC DEPENDENT;
```

Field	Type	Null	Key	Default	Extra
Essn	char(9)	NO	PRI	NULL	
Dependent_name	varchar(15)	NO	PRI	NULL	
Sex	char(1)	YES		NULL	
Bdate	date	YES		NULL	
Relationship	varchar(8)	YES		NULL	

```
5 rows in set (0.019 sec)
```

INSERTING VALUES IN THE TABLES

EMPLOYEE

INSERT INTO `employee` (`Fname`, `Minit`, `Lname`, `Ssn`, `Bdate`, `Address`, `Sex`, `Salary`, `Super_ssn`, `Dno`) VALUES

-> ('John', 'B', 'Smith', '123456789', '1965-01-09', '731 Fondren, Houston, TX', 'M', '30000', '333445555', '5')

-> ('Franklin', 'T', 'Wong', '333445555', '1955-12-08', '638 Voss, Houston, TX', 'M', '42000', '888665555', '10')

-> ('Alicia', 'J', 'Zelaya', '999887777', '1968-01-19', '3321 Castle, Spring, TX', 'F', '25000', '987654321', '4')

-> ('Jennifer', 'S', 'Wallace', '987654321', '1941-06-20', '291 Berry, Belliare, TX', 'F', '43000', '888665555', '4')

-> ('Ramesh', 'K', 'Narayan', '666884444', '1962-09-15', '975 Fire Oak, Humble, TX', 'M', '52000', '333445555', '5')

-> ('joyce', 'A', 'English', '453453453', '1972-07-31', '5631 Rice, Houston, TX', 'F', '25000', '333445555', '5')

-> ('Ahmad', 'V', 'Jabbar', '987987987', '1969-03-29', '980 Dallas, Houston, TX', 'M', '25000', '987654321', '7')

-> ('James', 'E', 'Borg', '888665555', '1937-11-10', '450 Stone, Houston, TX', 'M', '55000', 'NULL', '1');

-> ('Terisa', 'N', 'Iopez', '555544333', '1965-05-12', '931 Voss, Houston, TX', 'F', '68000', '123456789', '10'),

-> ('Bobby', 'B', 'Smith', '819595523', '1952-07-25', '2651 Castle, Spring, TX', 'M', '56000', 'NULL', '10'),

-> ('David', 'M', 'Robert', '765807877', '1966-12-15', '563 Rice, Houston', 'M', '52000', '123456789', '10'),

-> ('Daniel', 'M', 'Michael', '874507958', '1968-04-16', '165 Berry, Bellaire, TX', 'M', '58000', '765807877', '10'),

-> ('Rosy', 'K', 'Beth', '869954560', '1998-07-10', '200 Dallas, Houston,TX', 'F', '58000', '819595523', '10'),

-> ('Ankit', 'K', 'Kohli', '886043213', '1986-08-15', '636 Fire Oak,Humble TX', 'F', '65000', '869954560', '10');

-> ('Andrew', 'K', 'Thomas', '905387875', '1965-08-01', '354 Fondren, Houston,TX', 'M', '64000', '886043213', '10'),

-> ('Kavita', 'M', 'Gupta', '981242457', '1975-12-18', '160 Castle, Spring, TX', 'F', '57000', '886043213', '10'),

-> ('Elley', 'M', 'Michael', '987845642', '1962-03-18', '561 Stafford, TX', 'F', '61000', 'NULL', '10'),

-> ('Yashika', 'M', 'Kumari', '987946544', '1985-01-24', '123 Sugarland, TX', 'F', '51500', '987654321', '10');

```
MariaDB [Company]> SELECT * FROM EMPLOYEE;
```

Fname	Minit	Lname	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno
John	B	Smith	123456789	1950-01-09	731 Fondren, Houston, TX	M	30000.00	333445555	5
Franklin	T	Wong	333445555	1955-12-08	638 Voss, Houston, TX	M	42000.00	888665555	10
Joyce	A	English	453453453	1972-07-31	5631 Rice, Houston, TX	F	25000.00	333445555	5
Terisa	N	Lopez	555544333	1965-05-12	931 Voss, Houston, TX	F	68000.00	123456789	10
Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble, TX	M	52000.00	333445555	5
David	M	Robert	765807877	1966-12-15	563 Rice, Houston, TX	M	52000.00	123456789	10
Bobby	B	Smith	819595523	1952-07-25	2651 Castle, Spring, TX	M	56000.00	NULL	10
Rosy	K	Beth	869954560	1998-07-10	200 Dallas, Houston, TX	F	58000.00	819595523	10
Daniel	M	Michael	874507958	1968-04-16	165 Berry, Bellaire, TX	M	58000.00	765807877	10
Ankit	K	Kohli	886043213	1986-08-15	636 Fire Oak, Humble TX	F	65000.00	869954560	10
James	E	Borg	888665555	1937-11-10	450 Berry, Bellaire, TX	M	55000.00	NULL	1
Andrew	K	Thomas	905387875	1965-08-01	354 Fondren, Houston, TX	M	64000.00	886043213	10
Kavita	M	Gupta	981242457	1975-12-18	160 Castle, Spring, TX	F	57000.00	886043213	10
Jennifer	S	Wallace	987654321	1941-06-20	291 Berry, Belliare, TX	F	43000.00	888665555	4
Elley	M	Michael	987845642	1962-03-18	561 Stafford, TX	F	61000.00	NULL	10
Yashika	M	Kumari	987946544	1985-01-24	123 Sugarland, TX	F	51500.00	987654321	10
Ahmad	V	Jabbar	987987987	1969-03-29	980 Dallas, Houston, TX	M	25000.00	987654321	7
Alicia	J	Zelaya	999887777	1968-01-19	3321 Castle, Spring, TX	F	25000.00	987654321	4

18 rows in set (0.000 sec)

DEPARTMENT

INSERT INTO `department` (`Dname`, `Dnumber`, `Mgr_ssn`, `Mgr_start_date`)
VALUES

->('Research', '5', '333445555', '1988-05-22'),

->('Admistration', '4', '987987987', '1995-01-01'),

-> ('Headquarters', '1', '888665555', '1981-06-19');

-> ('Marketing', '10', '123456789', '1981-05-01');

-> ('Sales', '7', '981242457', '1968-05-22');

```
MariaDB [Company]> SELECT * FROM DEPARTMENT;
```

Dname	Dnumber	Mgr_ssn	Mgr_start_date
Headquarters	1	888665555	1981-06-19
Administration	4	987987987	1995-01-01
Research	5	333445555	1988-05-22
Sales	7	981242457	1968-05-22
Marketing	10	123456789	1981-05-01

5 rows in set (0.000 sec)

DEPT LOCATIONS

INSERT INTO DEPT_LOCATIONS VALUES

-> ('4','STAFFORD')

-> ('5','BELLAIRE');

-> ('1','HOUSTON');

-> ('5','SUGARLAND'),

-> ('5','HOUSTON');

```
MariaDB [Company]> SELECT * FROM DEPT_LOCATIONS;
```

Dnumber	Dlocation
1	HOUSTON
4	STAFFORD
5	BELLAIRE
5	HOUSTON
5	SUGARLAND

5 rows in set (0.009 sec)

PROJECT

INSERT INTO `project` (`Pname`, `Pnumber`, `Plocation`, `Dnum`) VALUES

->('ProductX', '1', 'Belliare', '5'), ('ProductY', '2', 'Sugarland', '5'),
->('ProductZ', '3', 'Houston', '5'), ('Computerization', '10', 'Stafford', '4'),
->('Reorganisation', '20', 'Houston', '1'), ('Newbenefite', '30', 'Stafford', '4');

```
MariaDB [Company]> SELECT * FROM PROJECT;
```

Pname	Pnumber	Plocation	Dnum
ProductX	1	Belliare	5
ProductY	2	Sugarland	5
ProductZ	3	Houston	5
Computerization	10	Stafford	4
Reorganisation	20	Houston	1
Newbenefite	30	Stafford	4

6 rows in set (0.015 sec)

WORKS ON

INSERT INTO `works_on` (`Essn`, `Pno`, `Hours`) VALUES

->('123456789', '1', '32.5'),
->('123456789', '2', '7.5'),
->('666884444', '3', '40.0'),
->('453453453', '1', '20.0'),
->('453453453', '2', '20.0'),
->('333445555', '2', '10.0'),
->('333445555', '3', '10.0'),
->('333445555', '10', '10.0'),
->('333445555', '20', '10.0'),
->('999887777', '30', '30.0'),
->('999887777', '10', '10.0'),

```
->('987987987', '10', '35.0'),
->('987987987', '30', '20.0'),
->('987654321', '20', '15.0'),
->('888665555', '20', 'NULL');
```

```
MariaDB [Company]> SELECT * FROM WORKS_ON;
+-----+-----+-----+
| Essn   | Pno | Hours |
+-----+-----+-----+
| 123456789 | 1 | 32.5 |
| 123456789 | 2 | 7.5 |
| 333445555 | 2 | 10.0 |
| 333445555 | 3 | 10.0 |
| 333445555 | 10 | 10.0 |
| 333445555 | 20 | 10.0 |
| 453453453 | 2 | 20.0 |
| 453453453 | 10 | 20.0 |
| 666884444 | 10 | 40.0 |
| 888665555 | 10 | 0.0 |
| 987654321 | 20 | 15.0 |
| 987987987 | 10 | 35.0 |
| 987987987 | 30 | 20.0 |
| 999887777 | 10 | 10.0 |
| 999887777 | 30 | 30.0 |
+-----+-----+-----+
15 rows in set (0.011 sec)
```

DEPENDENT

INSERT INTO DEPENDENT VALUES

```
->('999887777','ALICIA','F','1986-04-05','DAUGHTER'),
->('333445555','THEODORE','M','1983-10-25','SON'),
->('333445555','JOY','F','1958-05-03','SPOUSE'),
->('987654321','ABNER','M','1942-02-28','SPOUSE'),
->('123456789','MICHAEL','M','1988-01-04','SON'),
->('123456789','ALICE','F','1988-12-30','DAUGHTER'),
```

->('123456789','ELIZABETH','F','1967-05-05','SPOUSE');

```
MariaDB [Company]> SELECT * FROM DEPENDENT;
```

Essn	Dependent_name	Sex	Bdate	Relationship
123456789	ELIZABETH	F	1967-05-05	SPOUSE
123456789	MICHAEL	M	1988-01-04	SON
333445555	ALICE	F	1986-04-05	DAUGHTER
333445555	JOY	F	1958-05-03	SPOUSE
333445555	THEODORE	M	1983-10-25	SON
987654321	ABNER	M	1942-02-28	SPOUSE
999887777	Alicia	F	1988-12-30	DAUGHTER

7 rows in set (0.000 sec)

Queries

1. Display all the details of all employees working in the company.

SELECT * FROM EMPLOYEE;

```
MariaDB [Company]> SELECT * FROM EMPLOYEE;
```

Fname	Minit	Lname	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno
John	B	Smith	123456789	1950-01-09	731 Fondren, Houston, TX	M	30000.00	333445555	5
Franklin	T	Wong	333445555	1955-12-08	638 Voss, Houston, TX	M	42000.00	888665555	10
joyce	A	English	453453453	1972-07-31	5631 Rice, Houston, TX	F	25000.00	333445555	5
Terisa	N	lopez	555544333	1965-05-12	931 Voss,Houston, TX	F	68000.00	123456789	10
Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble, TX	M	52000.00	333445555	5
David	M	Robert	765807877	1966-12-15	563 Rice, Houston, TX	M	52000.00	123456789	10
Bobby	B	Smith	819595523	1952-07-25	2651 Castle, Spring, TX	M	56000.00	NULL	10
Rosy	K	Beth	869954560	1998-07-10	200 Dallas, Houston, TX	F	58000.00	819595523	10
Daniel	M	Michael	874507958	1968-04-16	165 Berry, Bellaire, TX	M	58000.00	765807877	10
Ankit	K	Kohli	886043213	1986-08-15	636 Fire Oak, Humble TX	F	65000.00	869954560	10
James	E	Bong	888665555	1937-11-10	450 Berry, Bellaire, TX	M	55000.00	NULL	1
Andrew	K	Thomas	905387875	1965-08-01	354 Fondren, Houston, TX	M	64000.00	886043213	10
Kavita	M	Gupta	981242457	1975-12-18	160 Castle, Spring, TX	F	57000.00	886043213	10
Jennifer	S	Wallace	987654321	1941-06-20	291 Berry, Belliare,TX	F	43000.00	888665555	4
Elley	M	Michael	987845642	1962-03-18	561 Stafford, TX	F	61000.00	NULL	10
Yashika	M	Kumari	987946544	1985-01-24	123 Sugarland, TX	F	51500.00	987654321	10
Ahmad	V	Jabbar	987987987	1969-03-29	980 Dallas, Houston, TX	M	25000.00	987654321	7
Alicia	J	Zelaya	999887777	1968-01-19	3321 Castle, Spring, TX	F	25000.00	987654321	4

18 rows in set (0.000 sec)

2. Display ssn, lname, fname, address of employees who work in department no 7.

SELECT SSN,LNAME,FNAME,ADDRESS FROM EMPLOYEE
WHERE DNO=7;

```
MariaDB [company]> SELECT SSN,LNAME,FNAME,ADDRESS FROM EMPLOYEE WHERE DNO=7;
+-----+-----+-----+-----+
| SSN      | LNAME  | FNAME  | ADDRESS                    |
+-----+-----+-----+-----+
| 987987987 | Jabbar  | Ahmad  | 980 Dallas, Houston, TX |
+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

3. Retrieve the birthdate and address of the employee whose name is 'Franklin T.'

```
SELECT BDATE,ADDRESS FROM EMPLOYEE WHERE
FNAME='FRANKLIN' AND MINIT='T';
```

```
MariaDB [company]> SELECT BDATE,ADDRESS FROM EMPLOYEE WHERE FNAME='FRANKLIN' AND MINIT='T';
+-----+-----+
| BDATE      | ADDRESS                    |
+-----+-----+
| 1955-12-08 | 638 Voss, Houston, TX |
+-----+-----+
1 row in set (0.000 sec)
```

4. Retrieve the name and salary of every employee

```
SELECT FNAME,LNAME,SALARY FROM EMPLOYEE;
```

```
MariaDB [company]> SELECT FNAME,LNAME,SALARY FROM EMPLOYEE;
```

FNAME	LNAME	SALARY
John	Smith	70000.00
Franklin	Wong	72000.00
joyce	English	25000.00
Terisa	lopez	68000.00
Ramesh	Narayan	52000.00
David	Robert	52000.00
Bobby	Smith	56000.00
Rosy	Beth	58000.00
Daniel	Michael	58000.00
Ankit	Kohli	65000.00
James	Borg	55000.00
Andrew	Thomas	64000.00
Kavita	Gupta	57000.00
Jennifer	Wallace	43000.00
Elley	Michael	61000.00
Yashika	Kumari	51500.00
Ahmad	Jabbar	25000.00
Alicia	Zelaya	25000.00

18 rows in set (0.000 sec)

5. Retrieve all distinct salary values

```
SELECT DISTINCT(SALARY) FROM EMPLOYEE;
```

```
MariaDB [company]> SELECT DISTINCT(SALARY) FROM EMPLOYEE;
+-----+
| SALARY |
+-----+
| 70000.00 |
| 72000.00 |
| 25000.00 |
| 68000.00 |
| 52000.00 |
| 56000.00 |
| 58000.00 |
| 65000.00 |
| 55000.00 |
| 64000.00 |
| 57000.00 |
| 43000.00 |
| 61000.00 |
| 51500.00 |
+-----+
14 rows in set (0.001 sec)
```

6. Retrieve all employee names whose address is in 'Bellaire' .

```
SELECT FNAME FROM EMPLOYEE WHERE ADDRESS LIKE
'%BELLAIRE%';
```

```
MariaDB [company]> SELECT FNAME FROM EMPLOYEE WHERE ADDRESS LIKE '%BELLAIRE%';
+-----+
| FNAME |
+-----+
| Daniel |
| James |
| Jennifer |
+-----+
3 rows in set (0.000 sec)
```


7. Retrieve all employees who were born during the 1950s.

```
SELECT * FROM EMPLOYEE WHERE BDATE LIKE '%195_%';
```

```
MariaDB [Company]> SELECT * FROM EMPLOYEE WHERE BDATE LIKE '%195_%';
```

Fname	Minit	Lname	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno
John	B	Smith	123456789	1950-01-09	731 Fondren, Houston, TX	M	30000.00	333445555	5
Franklin	T	Wong	333445555	1955-12-08	638 Voss, Houston, TX	M	42000.00	888665555	10
Bobby	B	Smith	819595523	1952-07-25	2651 Castle, Spring, TX	M	56000.00	NULL	10

```
3 rows in set (0.001 sec)
```

8. Retrieve all employees in department 5 whose salary is between 50,000 and 60,000(inclusive)

```
SELECT * FROM EMPLOYEE WHERE DNO=5 AND SALARY  
BETWEEN 50000 AND 60000;
```

```
MariaDB [Company]> SELECT * FROM EMPLOYEE WHERE DNO=5 AND SALARY BETWEEN 50000 AND 60000;
```

Fname	Minit	Lname	Ssn	Bdate	Address	Sex	Salary	Super_ssn	Dno
Ramesh	K	Narayan	666884444	1962-09-15	975 Fire Oak, Humble, TX	M	52000.00	333445555	5

```
1 row in set (0.001 sec)
```

9. Retrieve the names of all employees who do not have supervisors.

```
SELECT FNAME,LNAME FROM EMPLOYEE WHERE SUPER_SSN  
IS NOT NULL;
```

```
MariaDB [Company]> SELECT FNAME,LNAME FROM EMPLOYEE WHERE SUPER_SSN IS NOT NULL;
```

FNAME	LNAME
John	Smith
Franklin	Wong
joyce	English
Terisa	lopez
Ramesh	Narayan
David	Robert
Bobby	Smith
Rosy	Beth
Daniel	Michael
Ankit	Kohli
James	Borg
Andrew	Thomas
Kavita	Gupta
Jennifer	Wallace
Elley	Michael
Yashika	Kumari
Ahmad	Jabbar
Alicia	Zelaya

```
18 rows in set (0.000 sec)
```

10. Retrieve SSN and department name for all employees.

```
SELECT SSN,DNAME FROM EMPLOYEE,DEPARTMENT WHERE
DNO=DNUMBER;
```

```
MariaDB [Company]> SELECT SSN,DNAME FROM EMPLOYEE,DEPARTMENT WHERE DNO=DNUMBER;
```

SSN	DNAME
987654321	Admistration
999887777	Admistration
888665555	Headquaters
333445555	Marketing
555544333	Marketing
765807877	Marketing
819595523	Marketing
869954560	Marketing
874507958	Marketing
886043213	Marketing
905387875	Marketing
981242457	Marketing
987845642	Marketing
987946544	Marketing
123456789	Research
453453453	Research
666884444	Research
987987987	Sales

```
18 rows in set (0.000 sec)
```

11. Retrieve the name and address of all employees who work for the 'Research' department.

```
SELECT FNAME,LNAME,ADDRESS FROM  
EMPLOYEE,DEPARTMENT WHERE DNO=DNUMBER AND  
DNAME='RESEARCH';
```

```
MariaDB [Company]> SELECT FNAME,LNAME,ADDRESS FROM EMPLOYEE,DEPARTMENT WHERE DNO=DNUMBER AND DNAME='RESEARCH';  
+-----+-----+-----+  
| FNAME | LNAME | ADDRESS |  
+-----+-----+-----+  
| John  | Smith | 731 Fondren, Houston, TX |  
| Joyce | English | 5631 Rice, Houston, TX |  
| Ramesh | Narayan | 975 Fire Oak, Humble, TX |  
+-----+-----+-----+  
3 rows in set (0.000 sec)
```