

Application Software Development Lab (ASDL)

Github : [ceccs18c59/cs331:Application Software Development Lab \(github.com\)](https://github.com/ceccs18c59/cs331:Application-Software-Development-Lab)

Experiment 3

- Create table “employeedetails” with empid references to the empid in employee table
- Display the details of employee table where empid in “employeedetails” table
- Display the details of employee table where empid not in “employeedetail” table

SQL Query

```
USE cs333;
```

```
#1
```

```
CREATE TABLE employee (  
    empid VARCHAR(4) NOT NULL,  
    name VARCHAR(10) NOT NULL,  
    datejoined DATE,  
    salary INT NOT NULL,  
    PRIMARY KEY (empid)  
);
```

```
CREATE TABLE employeedetails (  
    empid VARCHAR(4) NOT NULL,  
    departmentid int,  
    FOREIGN KEY (empid)  
    REFERENCES employee(empid)  
);
```

```
INSERT INTO employee VALUES('e1', 'Jonny', '2012-12-03', '6000'),  
('e2', 'Jermy', '2014-03-06', '9000'),  
('e3', 'John', '2016-01-21', '30000'),  
('e4', 'Edison', '2015-01-11', '40000');
```

```
INSERT INTO employeedetails VALUES('e1', '3'), ('e3', '2'),  
('e4', '1');
```

```
#2
```

```
SELECT * FROM employee  
WHERE empid in(SELECT empid FROM employeedetails);
```

```
#3
```

```
SELECT * FROM employee
WHERE empid NOT IN(SELECT empid FROM employeeetails);
```

Result

```
MySQL 8.0 Command Line Client
mysql> USE cs333;
Database changed
mysql> CREATE TABLE employee (
  -> empid VARCHAR(4) NOT NULL,
  -> name VARCHAR(10) NOT NULL,
  -> datejoined DATE,
  -> salary INT NOT NULL,
  -> PRIMARY KEY (empid)
  -> );
Query OK, 0 rows affected (0.04 sec)

mysql> CREATE TABLE employeeetails (
  -> empid VARCHAR(4) NOT NULL,
  -> departmentid int,
  -> FOREIGN KEY (empid)
  -> REFERENCES employee(empid)
  -> );
Query OK, 0 rows affected (0.04 sec)

mysql> INSERT INTO employee VALUES('e1', 'Jonny', '2012-12-03', '6000'),
  -> ('e2', 'Jermy', '2014-03-06', '9000'),
  -> ('e3', 'John', '2016-01-21', '30000'),
  -> ('e4', 'Edison', '2015-01-11', '40000');
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> INSERT INTO employeeetails VALUES('e1', '3'), ('e3', '2'),
  -> ('e4', '1');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql>
```

```
MySQL 8.0 Command Line Client
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> INSERT INTO employeeetails VALUES('e1', '3'), ('e3', '2'),
  -> ('e4', '1');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM employee
  -> WHERE empid in(SELECT empid FROM employeeetails);
+-----+-----+-----+-----+
| empid | name  | datejoined | salary |
+-----+-----+-----+-----+
| e1    | Jonny | 2012-12-03 | 6000   |
| e3    | John  | 2016-01-21 | 30000  |
| e4    | Edison | 2015-01-11 | 40000  |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> SELECT * FROM employee
  -> WHERE empid NOT IN(SELECT empid FROM employeeetails);
+-----+-----+-----+-----+
| empid | name  | datejoined | salary |
+-----+-----+-----+-----+
| e2    | Jermy | 2014-03-06 | 9000   |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```