Assignment-8

Mid2

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Id-2016ucp1100

Batch-A (1, 2)

Flights (flno,frm,too,distance,departs,arrives,price)

Aircraft (aid, aname, cruising range)

Certified (eid,aid)

Employee (eid, ename, salary)

Create Tables:

```
MariaDB [(none)]> use mid2;
Database changed
MariaDB [mid2]> CREATE TABLE flights
-> (
-> flno INT,
-> frm VARCHAR(20),
-> too VARCHAR(20),
-> distance INT,
-> departs VARCHAR(20),
-> arrives VARCHAR(20),
-> price INT,
-> PRIMARY KEY (flno));
Query OK, 0 rows affected (0.27 sec)
```

```
MariaDB [mid2]> CREATE TABLE aircraft
-> (
-> aid INT,
-> aname VARCHAR(20),
-> cruisingrange INT,
-> PRIMARY KEY (aid));
Query OK, 0 rows affected (0.28 sec)
```

```
MariaDB [mid2]> CREATE TABLE employee
-> (
-> eid INT,
-> ename VARCHAR(20),
-> salary INT,
-> PRIMARY KEY (eid));
Query OK, 0 rows affected (0.26 sec)
```

```
MariaDB [mid2]> CREATE TABLE certified
-> (
-> eid INT,
-> aid INT,
-> PRIMARY KEY (eid,aid),
-> FOREIGN KEY (eid) REFERENCES employee (eid),
-> FOREIGN KEY (aid) REFERENCES aircraft (aid));
Query OK, 0 rows affected (0.22 sec)
```

Insert values into table:

```
MariaDB [mid2]> INSERT INTO aircraft (aid,aname,cruisingrange) values
-> (321,'Aircraft2',1100),
-> (203,'Boeing',5000),
-> (603,'MSD007',5000),
-> (873,'Airbus',8000),
-> (654,'Aircraft1',500),
-> (987,'INS_VIKRANT',800),
-> (159,'Aircraft3',1000);
Query OK, 7 rows affected (0.07 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

```
MariaDB [mid2]> INSERT INTO certified (eid,aid) values
    -> (1,321),
   -> (2,321),
-> (1,203),
    -> (5,203),
    -> (7,203),
-> (6,654),
    -> (3,654),
    -> (5,987),
    -> (6,987),
    -> (3,159),
    -> (1,159),
    -> (1,987),
    -> (1,603),
    -> (2,603),
    -> (1,873),
    -> (2,873),
    -> (4,873);
Query OK, 17 rows affected (0.15 sec)
Records: 17 Duplicates: 0 Warnings: 0
```

Show tables:

MariaDB [mid2]> select * from flights; flno | frm | too | distance | departs | arrives | price | 1 | jaipur | kolkata | 2 | jaipur | Delhi | 3 | jaipur | Mumbai | 3900 | 10:50:00 | 12:05:00 | 20000 300 12:20:00 04:35:00 5000 2600 02:30:00 05:30:00 12900 4 Delhi Mumbai 3000 10:20:00 12:10:00 8000 goa 5 Delhi 4000 07:20:00 05:35:00 20000 6 | jaipur | goa 7 | punjab | goa 4500 10:05:00 07:50:00 25000 12:05:00 | 06:35:00 | 30000 6000 rows in set (0.00 sec) MariaDB [mid2]> select * from aircraft; aid | aname | cruisingrange | 159 | Aircraft3 1000 203 Boeing 5000 321 Aircraft2 1100 603 MSD007 5000 654 Aircraft1 500 873 Airbus 8000 987 INS_VIKRANT 800

rows in set (0.00 sec)

```
MariaDB [mid2]> select * from certified;
 eid | aid |
       159
   1 |
       203
   1
       321
       603
   1
   1
       873
   1
       987
   2
       321
       603
       873
       159
       654
       873
   5
       203
   5
       987
   6
       654
   6
       987
     203
17 rows in set (0.00 sec)
MariaDB [mid2]> select * from employee;
 eid | ename | salary |
                35000
   1 | Ajay
   2 Ashish
                  90000
   3 | Amit
                  55000
   4
      Harish
                  50000
   5
      Rohit
                  95000
   6
                  80000
      Jatin
                 110000
       Rahul
   8
      abhishek
                  40000
                  11000
   9
     swaraj
  10 ankur
                  80000
10 rows in set (0.00 sec)
```

Queries:

1-find the names of pilots certified for some Boeing aircraft.

```
MariaDB [mid2]> select ename from employee inner join certified on
-> employee.eid=certified.eid inner join aircraft on
-> certified.aid=aircraft.aid
-> where aircraft.aname='Boeing';

+-----+
| ename |
+-----+
| Ajay |
| Rohit |
| Rahul |
+-----+
3 rows in set (0.00 sec)
```

2-print name and salary of every non pilot whose salary is more than average salary of pilots.

3-print names of employees who are certified only on aircrafts with cruisingrange longer than 1000 miles, but on at least 2 such aircrafts.

```
MariaDB [mid2]> select el.ename from employee el,certified cl,
-> aircraft al where cl.eid=el.eid and cl.aid=al.aid
-> and al.cruisingrange>1000
-> group by ename having count(ename)>1;
+-----+
| ename |
+-----+
| Ajay |
| Ashish |
+-----+
2 rows in set (0.03 sec)
```