-----EXPERIMENT 3-

EASY:-

MEDIUM:-

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                                                                                                                                                                                                                                            ▼ EN 🛊 🔌 🛕 🖟 8:39
                                                                                                                                          sunny@sunny: ~
 File Actions Edit View Help
  __(sunny⊛ sunny)-[~]
$ sudo mariadb
  [sudo] password for sunny:
[Sudo] password for summy.

[Sudo] password for sunny:

[Sudo] password for sunny:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 37

Server version: 11.8.3-MariaDB-1+b1 from Debian -- Please help get to 10k stars at https://github.com/MariaDB/Server
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> CREATE DATABASE EXP3;
Query OK, 1 row affected (0.001 sec)
MariaDB [(none)]> USE EXP3;

Database changed

MariaDB [EXP3]> CREATE TABLE Department (

→ ID INT PRIMARY KEY,

→ DEPT_NAME VARCHAR(50)
\rightarrow ); Query OK, 0 rows affected (0.114 sec)
 MariaDB [EXP3]> CREATE TABLE Employee (
       ADDE [EAPS]> CREATE TABLE EMPLOYEE (

→ IO INT,

→ NAME VARCHAR(50),

→ SALARY INT,

→ DEPT_ID INT,

→ FOREIGN KEY (DEPT_ID) REFERENCES Department(ID)
Query OK, 0 rows affected (0.108 sec)
 MariaDB [EXP3]> INSERT INTO Department (ID, DEPT_NAME) VALUES
→ (1, 'II'),

→ (2, 'SALES');

Query OK, 2 rows affected (0.018 sec)

Records: 2 Duplicates: 0 Warnings: 0
 MariaDB [EXP3]> INSERT INTO Employee (ID, NAME, SALARY, DEPT_ID) VALUES
       \rightarrow (1, 'JOE', 70000, 1),

\rightarrow (2, 'JIM', 90000, 1),
→ (2, J1M, 90000, 1),

→ (3, 'HENRY', 80000, 2),

→ (4, 'SAM', 60000, 2),

→ (5, 'MAX', 90000, 1);

Query OK, 5 rows affected (0.010 sec)

Records: 5 Duplicates: 0 Warnings: 0
 MariaDB [EXP3]> SELECT

→ D.DEPT_NAME,

→ E.NAME,

→ E.SALARY
        → E.SALARY

→ FROM Employee AS E

→ INNER JOIN Department AS D

→ ON D.ID = E.DEPT_ID

→ WHERE E.SALARY IN (

→ SELECT MAX(E2.SALARY)

→ FROM Employee AS E

→ WHERE E2.DEPT_ID = E.DEPT_ID

→ GROUP BY E2.DEPT_ID
         → ORDER BY D.DEPT_NAME;
   DEPT_NAME | NAME | SALARY |
                         JIM |
MAX |
HENRY |
                                        90000
90000
80000
     IT
IT
SALES
 3 rows in set (0.002 sec)
 MariaDB [EXP3]>
```

HARD:-

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                                                                                                                                                                                                                                                                                             ▼ EN 🖇 🔌 🛕 🖟 8:46
                                                                                                                                                                       sunny@sunny: ~
 File Actions Edit View Help
5
MariaDB [EXP3]> CREATE DATABASE EXP3;
ERROR 1007 (HY000): Can't create database 'EXP3'; database exists
MariaDB [EXP3]> USE EXP3;
Database changed
MariaDB [EXP3]> -- Create two source legacy tables as per input.
MariaDB [EXP3]> CREATE TABLE TableA (
                EmpID INT,
Ename VARCHAR(50),
→ 3ataly PM

→ );

ERROR 1050 (42S01): Table 'TableA' already exists

MariaDB [EXP3]> CREATE TABLE TableB (

Footh TMT
                       EmpID INT,
Ename VARCHAR(50),
Salary INT
 \rightarrow ); ERROR 1050 (42S01): Table 'TableB' already exists
ERROR 1050 (42501): Table 'TableB' already exists
MariaDB [EXP3]> MariaDB [EXP3]> — Input data provided.
MariaDB [EXP3]> INSERT INTO TableA (EmpID, Ename, Salary) VALUES
→ (1, 'AA', 1000),
→ (2, 'BB', 300);
Query OK, 2 rows affected (0.008 sec)
Records: 2 Duplicates: 0 Warnings: 0
MariaDB [EXP3]>
MariaDB [EXP3]> INSERT INTO TableB (EmpID, Ename, Salary) VALUES

→ (2, 'BB', 400),

→ (3, 'CC', 100);
Query OK, 2 rows affected (0.022 sec)
Records: 2 Duplicates: 0 Warnings: 0
 MariaDB [EXP3]> WITH AllEmployees AS (

→ SELECT * FROM TableA

→ UNION ALL

→ SELECT * FROM TableB
          → )
→ SELECT
         → SELECT

→ A.EmpID, A.Ename, A.Salary

→ FROM AllEmployees AS A

→ JOIN (

→ SELECT EmpID, MIN(SALARY) AS MinSalary

→ FROM AllEmployees

→ GROUP BY EmpID
         EmpID | Ename | Salary
                                            1000
1000
300
300
100
100
                  AA
AA
BB
BB
CC
CC
 6 rows in set (0.003 sec)
```