| | |
|---|---|
| **Started on** | Tuesday, 26 November 2019, 4:06 AM |
| **State** | Finished |
| **Completed on** | Sunday, 1 December 2019, 12:00 AM |
| **Time taken** | 4 days 19 hours |
| **Grade** | **0.00** out of 24.00 (**0**%) |

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Question **1**

Not answered

Marked out of 1.00

Display the SSN, Dno and Salary of all the employees. The result should sorted by Dno and salary.

```
+-----------+------+----------+
| ssn       | dno  | salary   |
+-----------+------+----------+
| 888665555 |    1 | 55000.00 |
| 987987987 |    4 | 25000.00 |
| 999887777 |    4 | 25000.00 |
| 987654321 |    4 | 43000.00 |
| 453453453 |    5 | 25000.00 |
| 123456789 |    5 | 30000.00 |
| 666884444 |    5 | 38000.00 |
| 333445555 |    5 | 40000.00 |
+-----------+------+----------+
8 rows in set (0.05 sec)
```

Answer: ☒

The correct answer is: select ssn, dno, salary From employee Order by dno, salary;.

---

Question **2**

Not answered

Marked out of 1.00

List the names of all the departments whose manager was hired in the year 1988.

Result to be sorted on Dname.

```
+----------+
| Dname    |
+----------+
| Research |
+----------+
1 row in set (0.02 sec)
```

Answer: ☒

The correct answer is: select Dname from department Where year(mgr_start_date) = 1988;.

## Question 3

Not answered

Marked out of 1.00

Display the names of projects that Joyce English is working on.

Result to be sorted on pname

```
+----------+
| pname    |
+----------+
| ProductX |
| ProductY |
+----------+
2 rows in set (0.02 sec)
```

Answer: ✖

The correct answer is: select p.pname from employee e, works_on w, project p where e.ssn = w.essn and w.pno = p.pnumber and e.fname = 'Joyce' and e.lname = 'English' order by pname;.

## Question 4

Not answered

Marked out of 1.00

Display the name of the employee along with the employee's salary and the supervisor's salary.  (Do NOT use nested queries)

Result to be sorted on fname.

```
+----------+-----------+---------------+
| fname    | EmpSalary | ManagerSalary |
+----------+-----------+---------------+
| Ahmad    | 25000.00 |      43000.00 |
| Alicia   | 25000.00 |      43000.00 |
| Franklin |  40000.00 |      55000.00 |
| Jennifer |  43000.00 |      55000.00 |
| John     |  30000.00 |      40000.00 |
| Joyce    |  25000.00 |      40000.00 |
| Ramesh   |  38000.00 |      40000.00 |
+----------+-----------+---------------+
7 rows in set (0.00 sec)
```

Answer: ✖

The correct answer is: select e.fname, e.salary EmpSalary, m.salary ManagerSalary From employee e, employee m Where e.super_ssn = m.ssn order by fname.

## Question 5

Not answered

Marked out of 1.00

Display the fnames of all the employees who are on 'bench' (i.e., who are not working on any project).

Result to be sorted on fname.

```
+-------+
| fname |
+-------+
| James |
+-------+
1 row in set (0.00 sec)
```

Answer: ✖

The correct answer is: select e.fname from employee e where e.ssn not in (select distinct essn from works_on) order by fname;.

Display the name of the project and the number of people assigned to the project.  Note that the list should include the name of the project even if there is no one assigned to the project.

```
+-----------------+---------------+
| pname           | count(w.essn) |
+-----------------+---------------+
| ProductX        |            2 |
| ProductY        |            3 |
| ProductZ        |            2 |
| Computerization |            3 |
| Reorganization  |            2 |
| Newbenefits     |            3 |
+-----------------+---------------+
6 rows in set (0.00 sec)
```

Answer: [                                                          ] ✖

The correct answer is: select p.pname, count(w.essn) From project p left join works_on w on p.pnumber = w.pno Group by p.pnumber;.

Display the essn, fname and totalhours of the employee who has clocked the highest total project hours. Do not use VIEWS!

Result to be sorted on ssn.

```
+-----------+----------+------------+
| ssn       | fname    | totalhours |
+-----------+----------+------------+
| 123456789 | John     |      40.00 |
| 333445555 | Franklin |      40.00 |
| 453453453 | Joyce    |      40.00 |
| 666884444 | Ramesh   |      40.00 |
| 987987987 | Ahmad    |      40.00 |
| 999887777 | Alicia   |      40.00 |
+-----------+----------+------------+
6 rows in set (0.00 sec)
```

Answer: [                                                          ] ✖

The correct answer is: select e.ssn, e.fname, w1.totalhours From ( select w1.essn, sum(w1.hours) totalhours From works_on w1 Group by w1.essn) w1 inner join employee e on w1.essn = e.ssn Where w1.totalhours = ( select max(totalhours) From (select w1.essn, sum(w1.hours) totalhours From works_on w1 Group by w1.essn ) w2 ) order by ssn;.

Display the SSN, Dno and Salary of all the female employees. The result should sorted by Dno, salary, SSN

```
+-----------+------+----------+
| ssn       | dno  | salary   |
+-----------+------+----------+
| 999887777 |    4 | 25000.00 |
| 987654321 |    4 | 43000.00 |
| 453453453 |    5 | 25000.00 |
+-----------+------+----------+
3 rows in set (0.00 sec)
```

Answer: [                                                          ] ✖

The correct answer is: select ssn, dno, salary From employee Where sex = 'F' order by Dno, salary, ssn;.

**Question 9**

Not answered

Marked out of 1.00

Display the names of dependents of Franklin Wong

Result to be ordered by dependent_name

```
+----------------+
| dependent_name |
+----------------+
| Alice          |
| Joy            |
| Theodore       |
+----------------+
3 rows in set (0.00 sec)
```

Answer: [                                        ] ✖

The correct answer is: select d.dependent_name From dependent d inner join employee e on d.essn = e.ssn Where e.fname = 'Franklin' and e.lname = 'Wong' order by dependent_name;.

**Question 10**

Not answered

Marked out of 4.00

Display the ssn and fname of the employee who has clocked above average project hours. Do not use VIEWS!

Result to be ordered by SSN.

```
+-----------+----------+
| ssn       | fname    |
+-----------+----------+
| 123456789 | John     |
| 333445555 | Franklin |
| 453453453 | Joyce    |
| 666884444 | Ramesh   |
| 987987987 | Ahmad    |
| 999887777 | Alicia   |
+-----------+----------+
6 rows in set (0.00 sec)
```

Answer: [                                        ] ✖

The correct answer is: select e.ssn, e.fname From (select w1.essn, sum(w1.hours) totalhours From works_on w1 Group by w1.essn) w inner join employee e on w.essn = e.ssn Where w.totalhours > (select avg(totalhours) From (select w1.essn, sum(w1.hours) totalhours From works_on w1 Group by w1.essn) w2) order by ssn;.

**Question 11**

Not answered

Marked out of 1.00

List the names of all the dependents whose relationship is either 'Son' or 'Daughter'.

Result to be ordered on dependent_name

```
+----------------+
| dependent_name |
+----------------+
| Alice          |
| Alice          |
| Michael        |
| Theodore       |
+----------------+
4 rows in set (0.00 sec)
```

Answer: [                                        ] ✖

The correct answer is: select dependent_name From dependent Where relationship = 'Daughter' or relationship = 'Son' order by dependent_name;.

**Question 12**

Not answered

Marked out of 1.00

Display the names of departments located in Houston.

Result to be sorted on dname

```
+--------------+
| dname        |
+--------------+
| Headquarters |
| Research     |
+--------------+
2 rows in set (0.00 sec)
```

Answer: 

The correct answer is: select d.dname From department d, dept_locations dl where d.dnumber = dl.dnumber and dl.dlocation = 'Houston' order by d.dname;.

**Question 13**

Not answered

Marked out of 1.00

Display the name of the employee along with the employee's salary and the supervisor's fname and date of birth.  (Do NOT use nested queries)

Result to sorted on fname.

```
+----------+-----------+----------+------------+
| fname    | EmpSalary | fname    | bdate      |
+----------+-----------+----------+------------+
| Ahmad    |  25000.00 | Jennifer | 1941-01-09 |
| Alicia   |  25000.00 | Jennifer | 1941-01-09 |
| Franklin |  40000.00 | James    | 1937-01-09 |
| Jennifer |  43000.00 | James    | 1937-01-09 |
| John     |  30000.00 | Franklin | 1955-01-09 |
| Joyce    |  25000.00 | Franklin | 1955-01-09 |
| Ramesh   |  38000.00 | Franklin | 1955-01-09 |
+----------+-----------+----------+------------+
7 rows in set (0.00 sec)
```

Answer: 

The correct answer is: select e.fname, e.salary EmpSalary, m.fname, m.bdate From employee e, employee m Where e.super_ssn = m.ssn order by e.fname;.

**Question 14**

Not answered

Marked out of 4.00

Display the name of the project and total hours of the project that has clocked the highest project hours. Do not use VIEWS!

Result to sorted by pname

```
+----------------+------------+
| pname          | totalhours |
+----------------+------------+
| Computerization |    55.00 |
| Newbenefits    |     55.00 |
+----------------+------------+
2 rows in set (0.00 sec)
```

Answer: 

The correct answer is: select p.pname, w.totalhours From (select pno, sum(hours) totalhours From works_on Group by pno) w inner join project p on w.pno = p.pnumber Where w.totalhours = (select max(totalhours) From (select pno, sum(hours) totalhours From works_on Group by pno) w2) order by p.pname;.

List the names of all the dependents along with their date of birth whose relationship is 'Daughter'.

Result to be sorted on date of birth

```
+----------------+------------+
| dependent_name | bdate      |
+----------------+------------+
| Alice          | 1986-04-05 |
| Alice          | 1988-04-05 |
+----------------+------------+
```
2 rows in set (0.00 sec)

Answer: [                                      ] ✖

The correct answer is: select dependent_name, bdate From dependent Where relationship = 'Daughter' order by bdate;.