

## **Part A**

### **EMPLOYEE**

**FName** = Employee First Name

**LName** = Employee Last Name

**EID** = Employee ID, Primary Key - Integer Type

**Start\_date** = The date of Joining the company

**Office**= Employee's office location

**Salary** = Employee's Salary

**DNo** = Employee's Department Number

**Bonus**= Bonus paid to the employee. If value is 0, then employee is not paid a bonus for that term

**Email** = Employee's email

| FName  | LName    | <u>EID</u> | Start_date | Office  | Salary | DNo | Bonus | email                  |
|--------|----------|------------|------------|---------|--------|-----|-------|------------------------|
| John   | Taylor   | 1777       | 2012-04-13 | Chicago | 20000  | 4   | 400   | jtaylor@yahoo.com      |
| Trevor | Williams | 1945       | 1980-06-23 | London  | 55055  | 4   | 1000  | trev_william@gmail.com |
| Zoe    | Johnson  | 2050       | 1992-06-23 | Paris   | 55055  | 5   | 2000  | zoe777@msn.com         |
| Kathy  | Franklin | 2051       | 2013-06-29 | Chicago | 20000  | 5   | 0     | kathyfrank@gmail.com   |
| Trevor | Jacob    | 2398       | 1999-06-23 | London  | 55055  | 4   | 0     | trevorJ235@aol.com     |
| John   | Owens    | 7777       | 2004-12-04 | London  | 130000 | 4   | 3500  | mailjude@yahoo.com     |
| Alice  | Bright   | 8888       | 1973-12-19 | London  | 111114 | 7   | 3000  | ab23@gmail.com         |

### **Table: Currency\_table**

lists the preferred currency for payment of salary

**Currency\_code:** Currency code for currencies in use in respective locations

**Location:** Office locations. Primary key

| <u>Location</u> | currency_code |
|-----------------|---------------|
| Chicago         | USD           |
| London          | GBP           |
| Paris           | EUR           |

1 Table **currency\_table** lists the preferred currency in which salary has to be paid for employees in each of the office locations. Display the city, EID and the salary of employees (appended with their local currency\_code). Eg: The result of the query for the employee Mark Williams living in London should show his salary as 55055 GBR.

2. Find the Names and EID of all employees who share a First Name with a second employee.

3. Write a query to find out which of the email services are used by at least two employees. (If you look at the table, you can see that this is gmail.com (3 employees use gmail), yahoo.com (2 employees use yahoo). But you should find a way to extract the values from the email column and use it in your query

4. If 5% of an employee's salary is deducted for various reasons, write a query to display the amount deducted (display this value with a heading "Deduction") and the net amount paid to each employee (This will be the sum of Salary after deduction and the bonus. Display this value with a heading "Final\_salary")

5. Display all the information about employees, but the list is arranged according to the decreasing order of salaries. If two employees have the same salary, then they are arranged alphabetically according to their last name.

6. Write a query to display all the departments where more than one employee has received a bonus

## **PART B**

### **EMPLOYEE TABLE**

**FName** = Employee First Name

**LName** = Employee Last Name

**EID** = Employee ID, Primary Key - Integer Type

**Start\_date** = The date of Joining the company

**City** = Employee's home City

**Salary** = Employee's monthly Salary

**DNo** = Employee's Department Number

**Supervisor\_ID** = EID of Employee's immediate supervisor. Can take Null values. Integer Type

**Email** = Employee's email id

| FName | LName  | <u>EID</u> | Start_date | City   | Salary | DNo | Supervisor_ID | email             |
|-------|--------|------------|------------|--------|--------|-----|---------------|-------------------|
| John  | Taylor | 1777       | 2007-04-13 | Sydney | 20000  | 4   | 1945          | jtaylor@yahoo.com |

|        |          |      |            |        |             |   |      |                        |
|--------|----------|------|------------|--------|-------------|---|------|------------------------|
| Mark   | Williams | 1945 | 2012-06-23 | London | 55055       | 4 | 8888 | mark_william@gmail.com |
| Zoe    | Johnson  | 2050 | 2015-06-23 | Oslo   | 55055       | 5 | 2534 | zoe777@msn.com         |
| Kathy  | Franklin | 2051 | 2013-06-29 | Sydney | 20000       | 5 | 2534 | kathyfrank@yahoo.com   |
| Trevor | Jacob    | 2398 | 2012-06-23 | London | 55055       | 4 | 1945 | trevorJ235@xyz.com     |
| Mike   | Law      | 5523 | 2009-12-04 | London | 70000       | 4 | 7777 | mlaw9@gmail.com        |
| Jude   | Owens    | 7777 | 2004-12-04 | London | 130000      | 4 | NULL | mailjude@xyz.com       |
| Alice  | Bright   | 8888 | 1999-12-19 | London | 111114<br>3 | 7 | NULL | ab23@gmail.com         |

### Questions

1. Write a query to display the second lowest salary paid to any employee
2. Each entry in the email column is of the form username@domain.com. Write a query to display only the username part of the email column for all employees (if John Taylor's email is jtaylor@yahoo.com, the query should return jtaylor).