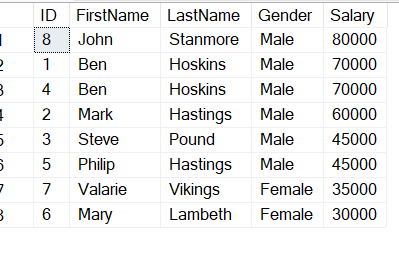
**DAY 2 Assignment Questions**

**Practice Question**

**Que 1. Select 2nd Highest salary from the Table.**

Input: -

Table - SALARY



**Que 2**. Find the date and the day for the current decade.

**Que 3**. Write the Query to get the first 3 Alphabets of Column State

**Input**-

|  |  |  |  |
| --- | --- | --- | --- |
| supplier\_id | supplier\_name | city | state |
| 100 | Microsoft | Redmond | Washington |
| 200 | Google | Mountain View | California |
| 300 | Oracle | Redwood City | California |
| 400 | Kimberly-Clark | Irving | Texas |
| 500 | Tyson Foods | Springdale | Arkansas |
| 600 | google | Racine | Wisconsin |
| 700 | google | Westlake Village | California |
| 800 | google | Thomasville | Georgia |
| 900 | Electronic Arts | Redwood City | California |

**Que 4**. Write a query to display the first day of the month (in datetime format) three months before the current month.

**Que 5**. Write a query to display the last day of the month (in datetime format) three months before the current month.

**Que 6**. Write a query to get the first day of the current year.

**Que 7**. Write a query to calculate the age in year.

**Que 8**. Write a query to get the current date in the following format.

**Input** - 2014-09-04

**Output Format** - September 4, 2014

**Que 9**. Write a query to extract the year from the current date.

**Que 10.** Find the Index of ‘@’ in the Given String

**Input** – [adventureworks@database.com](mailto:adventureworks@database.com)

**Que 11**. Extract the Domain from the Email Id.

**Input**-

|  |
| --- |
| Email |
| [Abc@xyz.com](mailto:Abc@xyz.com) |
| [Assds@adbcs.com](mailto:Assds@adbcs.com) |
| [Dsdadff@sfgreesa.com](mailto:Dsdadff@sfgreesa.com) |
| [Fgrfsderee@dfsdfecdadsc.com](mailto:Fgrfsderee@dfsdfecdadsc.com) |
| [Dfsfrtfgrewwwvvfbf@a.com](mailto:Dfsfrtfgrewwwvvfbf@a.com) |
| [A@c.in](mailto:A@c.in) |
| [Aseec@asec.inc](mailto:Aseec@asec.inc) |

**Que 12.**

|  |  |  |  |
| --- | --- | --- | --- |
| EmployeeId | Name | Salary | EmailId |
| 1 | John | 1000 | John@abc.com |
| 2 | Ben | 2000 | Ben@xyz.com |
| 3 | Mark | 3000 | Mark@abc.com |
| 4 | Steve | 2000 | Steve@asd.com |
| 5 | Philip | 5000 | Philip@xyz.com |
| 6 | Mary | 6000 | Mary@qwe.com |

1. Count of Employees who have same Domain.
2. Count of Employee who have same salary.
3. Count of Employee who have same domain and same salary.
4. Select Name and Id of Employee who have same domain.

**Que 13**. Create a Table named ‘Example’ which have the following structure:

|  |  |  |  |
| --- | --- | --- | --- |
| id | name | dob | gender |
| 1 | Student1 | 2023-02-20 | MALE |
| 2 | Student2 | 1999-01-01 | FEMALE |

If User doesn’t fill gender or dob, make sure those values are set to today’s date and ‘Male’ by default.

No Column should have null values, and id column should be the primary key.

**Que 2.** Create and insert the data named as ‘Constraint’

Graphical user interface, text, application

Description automatically generated

Create a Constraint that doesn’t allow Null values in ID column.

**Que 14.** Select all the records from the table for which the state Column starts with alphabet W

Input Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| supplier\_id | supplier\_name |  | city | state |
| 100 | Microsoft |  | Redmond | Washington |
| 200 | Google |  | Mountain View | California |
| 300 | Oracle |  | Redwood City | California |
| 400 | Kimberly-Clark |  | Irving | Texas |
| 500 | Tyson Foods |  | Springdale | Arkansas |
| 600 | SC Johnson |  | Racine | Wisconsin |
| 700 | Dole Food Company |  | Westlake Village | California |
| 800 | Flowers Foods |  | Thomasville | Georgia |
| 900 | Electronic Arts |  | Redwood City | California |

**Que 15.** You are given a table, Projects, containing three columns: Task\_ID, Start\_Date and End\_Date. It is guaranteed that the difference between the End\_Date and the Start\_Date is equal to 1 day for each row in the table.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Column | Type | | Id | Integer | | Start\_Date | Date | | End\_Date | Date | |  |

If the End\_Date of the tasks are consecutive, then they are part of the same project. Suraj is interested in finding the total number of different projects completed.

Write a query to output the start and end dates of projects listed by the number of days it took to complete the project in ascending order. If there is more than one project that have the same number of completion days, then order by the start date of the project.

**Sample Input**

|  |  |  |
| --- | --- | --- |
| Id | Start\_Date | End\_Date |
| 1 | 10/01/2023 | 11/01/2023 |
| 2 | 11/01/2023 | 12/01/2023 |
| 3 | 12/01/2023 | 13/01/2023 |
| 4 | 25/01/2023 | 26/01/2023 |
| 5 | 26/01/2023 | 27/01/2023 |
| 6 | 30/01/2023 | 31/01/2023 |
| 7 | 01/02/2023 | 02/02/2023 |

**Solve these Following Queries by Using Adventure Works Database**

1. List of Customer ContactName and number of orders they placed
2. List of customer contactnames who have placed more than 3 orders
3. List of discontinued products which were ordered between 1/1/1997 and 1/1/1998
4. List of employees firsname, lastName, superviser FirstName, LastName
5. List of Employees id and total sale condcuted by employee
6. list of employees whose FirstName contains character a
7. List of managers who have more than four people reporting to them.
8. List of Orders and ProductNames
9. List of orders place by the best customer
10. List of orders placed by customers who do not have a Fax number
11. List of Postal codes where the product Tofu was shipped
12. List of product Names that were shipped to France
13. List of ProductNames and Categories for the supplier 'Specialty Biscuits, Ltd.
14. List of products that were never ordered
15. List of products where units in stock is less than 10 and units on order are 0.
16. List of top 10 countries by sales
17. Number of orders each employee has taken for customers with CustomerIDs between A and AO
18. Orderdate of most expensive order
19. Product name and total revenue from that product
20. Supplierid and number of products offered
21. Top ten customers based on their business
22. What is the total revenue of the company.
23. Count of Employees who joined in Same month.
24. Count of Employees who share same month in their Birth Date.
25. Count of Employees Gender Wise.