

Company Employees

Question & Syntax

--1.How many departments are there in organization ?

```
Select  
Count (Distinct (Department)) AS No_of_Dept  
FROM [Employees' Data].[dbo].[Employees$];
```

Output

 Results  Messages

| | No_of_Dept |
|---|------------|
| 1 | 20 |

➤ In the department, there are Unique 20 Departs out of 689

Question & Syntax

```
--2.We need to find County wise segregation which employees work in which departments
SELECT
[First Name],
[Last Name],
Department,
Country
FROM [Employees' Data].[dbo].[Employees$]
WHERE Country IN (
SELECT DISTINCT Country
FROM [Employees' Data].[dbo].[Employees$])
ORDER BY Country, Department ;
```

Output

| | First Name | Last Name | Department | Country |
|-----|------------|-------------|---------------------|---------|
| 1 | Muhamad | Alaya | Account Management | Egypt |
| 2 | Muhamad | Alnifaei | Account Management | Egypt |
| 3 | Samir | Alsafdi | Account Management | Egypt |
| 4 | Majdulin | Ashbrh | Account Management | Egypt |
| 5 | Ahmad | Zayd | Account Management | Egypt |
| 380 | Maria | Alhizae | Creative | Lebanon |
| 381 | Muhamad | Basil | Human Resources | Lebanon |
| 382 | Ibrahim | Alhamid | Major Mfg Projects | Lebanon |
| 383 | Abdalmjid | Ahmad | Manufacturing | Lebanon |
| 384 | Sari | Hanna | Marketing | Lebanon |
| 385 | Kinda | Zaki | Product Development | Lebanon |
| 386 | Rahaf | Ejluni | Product Development | Lebanon |
| 387 | Jablah | Alsulaym... | Quality Assurance | Lebanon |

- As per checking data, we found majority of employees are from Egypt, with a significant concentration in the Account Management department, followed by Lebanon and Saudi Arabia.

Question & Syntax

--3.Which countries have the highest employee count ?

```
SELECT  
Country,  
COUNT(*) AS Employee_Count  
FROM [Employees' Data].[dbo].[Employees$]  
GROUP BY Country  
ORDER BY Employee_Count DESC ;
```

Output

| Results | | | Messages | |
|---------|----------------------|----------------|----------|--|
| | Country | Employee_Count | | |
| 1 | Egypt | 379 | | |
| 2 | United Arab Emirates | 156 | | |
| 3 | Saudi Arabia | 90 | | |
| 4 | Syria | 53 | | |
| 5 | Lebanon | 11 | | |

➤ In, Egypt, United Arab Emirates, Saudi Arabia are top 3 places where employees are located.

Question & Syntax

--4.Which centers do employees work at in the organization in Percentage?

```
Select  
Center,  
(COUNT(*) * 100/ ROUND((SELECT COUNT(*) FROM [Employees' Data].[dbo].[Employees$]), 2)) AS Employee_Percent  
FROM [Employees' Data].[dbo].[Employees$]  
GROUP by Center  
ORDER BY Employee_Percent DESC ;
```

Output

| Results | | | Messages | |
|---------|--------|------------------|----------|--|
| | Center | Employee_Percent | | |
| 1 | Main | 36 | | |
| 2 | North | 30 | | |
| 3 | West | 17 | | |
| 4 | South | 9 | | |
| 5 | East | 6 | | |

- Centers 'Main' and 'North' together account for 66% of the total employee distribution across all centers, with the remaining centers contributing a smaller proportion.

Question & Syntax

```
--5. Which departments have the most employees by gender? (Top 5 departments)

SELECT
  Top 5
  Department,
  Gender,
  COUNT(*) AS Employee_Count
FROM [Employees' Data].[dbo].[Employees$]
GROUP BY Department, Gender
ORDER BY Employee_Count DESC;
```

Output

| Results | | Messages | |
|---------|--------------------|----------|----------------|
| | Department | Gender | Employee_Count |
| 1 | Manufacturing | Male | 95 |
| 2 | Quality Control | Male | 61 |
| 3 | Account Management | Male | 49 |
| 4 | Manufacturing | Female | 45 |
| 5 | Quality Assurance | Male | 39 |

- In the top five departments within the manufacturing sector, including Manufacturing, Quality Control, Account Management, and Quality Assurance, there is a higher representation of males in leadership roles compared to female

Question & Syntax

--6.Which employee earns the highest monthly salary

```
Select  
Top 1  
[First Name],  
[Last Name],  
[Monthly Salary] AS Highest_Salary  
FROM [Employees' Data].[dbo].[Employees$]  
ORDER By Highest_Salary Desc;
```

Output

| Results | | | |
|----------|------------|-----------|----------------|
| Messages | | | |
| | First Name | Last Name | Highest_Salary |
| 1 | Ashraf | Aleid | 3450 |

➤ Ashraf Aleid is the highest-paid employee within the organization.

Question & Syntax

--7.What is the average annual salary of employees?

```
Select  
ROUND (AVG ([Monthly Salary]) ,2) AS Average_Salary  
FROM [Employees' Data].[dbo].[Employees$]
```

Output

| Average_Salary | |
|----------------|--------|
| 1 | 2068.2 |

➤ The Average Salary is withdrawn within the organization is 2,062.

Question & Syntax

```
--8.Which top 5 department has the highest job rate?  
Select  
Top 5  
Department,  
MAX ([Job Rate]) As Highest_Job_Rate  
FROM [Employees' Data].[dbo].[Employees$]  
Group by Department  
ORDER by Highest_Job_Rate Desc;
```

Output

| Results | | | Messages | | |
|---------|-----------------------------|------------------|----------|--|--|
| | Department | Highest_Job_Rate | | | |
| 1 | Facilities/Engineering | 5 | | | |
| 2 | Environmental Health/Safety | 5 | | | |
| 3 | Environmental Compliance | 5 | | | |
| 4 | Creative | 5 | | | |
| 5 | Account Management | 5 | | | |

- The Top 5 Department are Facilities/Engineering, Environmental Health/Safety, Environmental Compliance, Creative, Account Management which have 5 out 5 rating.

Question & Syntax

```
--9.Which top 3 department has the lowest job rate?  
Select  
Top 3  
Department,  
MIN ([Job Rate]) As lowest_Job_Rate  
FROM [Employees' Data].[dbo].[Employees$]  
Group by Department  
ORDER by lowest_Job_Rate Desc;
```

Output

| Results Messages | | |
|------------------|-----------------------------|-----------------|
| | Department | lowest_Job_Rate |
| 1 | Environmental Health/Safety | 3 |
| 2 | Manufacturing Admin | 3 |
| 3 | Creative | 2 |

- The Top 3 Department are Environmental Health/Safety, Manufacturing Admin, Creative which have 3 out 5 rating.

Question & Syntax

--10.Which employee has taken the highest number of sick leaves?

```
SELECT  
TOP 1  
[First Name],  
[Last Name],  
[Sick Leaves]  
FROM [Employees' Data].[dbo].[Employees$]  
ORDER BY [Sick Leaves] DESC;
```

Output

| Results | | | |
|----------|------------|-----------|-------------|
| Messages | | | |
| | First Name | Last Name | Sick Leaves |
| 1 | Lin | Alhalaliu | 6 |

➤ Lin Alhalaliu, is a employee who take highest number of sick leave.

Question & Syntax

--11.What is the average number of sick leaves taken by employees?

SELECT

ROUND (AVG ([Sick Leaves]),0) As No_of_Average

FROM [Employees' Data].[dbo].[Employees\$]

Output



Results



Messages

| | No_of_Average |
|---|---------------|
| 1 | 2 |

➤ The Average Number of Sick leave by employees is 2 .

Question & Syntax

```
--12.Which employee has taken the most unpaid leaves?  
SELECT  
Top 1  
[First Name],  
[Last Name],  
MAX ([Unpaid Leaves]) AS Most_Unpaid  
FROM [Employees' Data].[dbo].[Employees$]  
GROUP BY [First Name],[Last Name]  
ORDER BY Most_Unpaid Desc;
```

Output

Results

Messages

| | First Name | Last Name | Most_Unpaid |
|---|------------|-----------|-------------|
| 1 | Husam | Aldubus | 6 |

➤ The Most Unpaid Leave was taken by Husam Aldubus .

Question & Syntax

```
--13.Which employee has logged the most overtime hours?  
Select  
Top 1  
[First Name],  
[Last Name],  
MAX ([Overtime Hours]) AS Most_Overtime  
FROM [Employees' Data].[dbo].[Employees$]  
GROUP BY [First Name],[Last Name]  
ORDER BY Most_Overtime Desc;
```

Output

| Results | | Messages | |
|---------|------------|-----------|---------------|
| | First Name | Last Name | Most_Overtime |
| 1 | Omar | Hishan | 198 |

➤ The Most Overtime was taken by Omar Hishan .

Question & Syntax

--14.What is the average overtime logged by employees?

Select

ROUND (AVG ([Overtime Hours]),0) AS Avg_Overtime

FROM [Employees' Data].[dbo].[Employees\$];

Output

| | Avg_Overtime |
|---|--------------|
| 1 | 14 |

➤ The average overtime hours taken by employees is 14 hours..

Question & Syntax

--15.How many employees have been working with the organization since each year?

```
Select  
Years,  
Count (*) As No_of_Employee  
FROM [Employees' Data].[dbo].[Employees$]  
Group By Years  
ORDER By No_of_Employee Desc;
```

Output

| Results | | | Messages | | |
|---------|-------|----------------|----------|--|--|
| | Years | No_of_Employee | | | |
| 1 | 5 | 233 | | | |
| 2 | 4 | 170 | | | |
| 3 | 6 | 137 | | | |
| 4 | 7 | 78 | | | |
| 5 | 8 | 47 | | | |
| 6 | 3 | 24 | | | |

- The majority of employees have been with the organization for 5 years, followed by those with 4 to 6 years of service. Additionally, some employees have been with the organization for 8 years...