```sql
-- Question1:- How many employees are in each Payment Tier?

SELECT
    PaymentTier, COUNT(*) AS EmployeeCount
FROM
    employee
GROUP BY
    PaymentTier
ORDER BY
    PaymentTier;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

PaymentTier	EmployeeCount
1	243
2	918
3	3492

```sql
-- Question2:- Calculate the average age of employees for each gender.

SELECT
    Gender, AVG(age) AS AverageAge
FROM
    employee
GROUP BY
    Gender;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Gender	AverageAge
Male	29.3780
Female	29.4160

```sql
-- Question3:- Find the top 3 cities with the highest percentage of employees who have been benched at least once.

SELECT
    City,
    TotalEmployees,
    BenchedEmployees,
    BenchedEmployees / TotalEmployees AS BenchedPercentage
FROM (
    SELECT
        City,
        COUNT(*) AS TotalEmployees,
        SUM(CASE WHEN EverBenched = 'Yes' THEN 1 ELSE 0 END) AS BenchedEmployees
    FROM
        employee
    GROUP BY
        City
) AS Subquery
ORDER BY
    BenchedPercentage DESC
LIMIT 3;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

City	TotalEmployees	BenchedEmployees	BenchedPercentage
Bangalore	2228	242	0.1086
Pune	1268	135	0.1065
New Delhi	1157	101	0.0873

```sql
-- Question4:- For each Education level, calculate the average experience in the current domain for employees who
-- joined before 2015 and those who joined in 2015 or later.

SELECT
    Education,
    AVG(CASE WHEN JoiningYear < 2015 THEN ExperienceInCurrentDomain End) AS AvgExperienceBefore2015,
    AVG(CASE WHEN JoiningYear >= 2015 THEN ExperienceInCurrentDomain End) AS AvgExperience2015OrLater
FROM
    employee
GROUP BY
    Education;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Education	AvgExperienceBefore2015	AvgExperience2015OrLater
Bachelors	2.9880	2.8503
Masters	3.0588	2.8252
PHD	3.0811	2.7905

```sql
-- Question5:- Calculate an Employee's likelihood to leave based on their Payment Tier, Experience in Current Domain,
-- and the average leave rate of their city.

WITH CityLeaveRates AS (
    SELECT City,
           AVG(CASE WHEN LeaveOrNot = 'Yes' THEN 1 ELSE 0 END) AS CityLeaveRate
    FROM employee
    GROUP BY City
)
SELECT
    ei.PaymentTier,
    CASE
        WHEN ei.ExperienceInCurrentDomain <= 3 THEN 'Low'
        WHEN ei.ExperienceInCurrentDomain <= 7 THEN 'Medium'
        ELSE 'High'
    END AS ExperienceLevel,
    ei.City,
    clr.CityLeaveRate,
    COUNT(*) AS TotalEmployees,
    SUM(CASE WHEN ei.LeaveOrNot = 'Yes' THEN 1 ELSE 0 END) AS LeavingEmployees,
    SUM(CASE WHEN ei.LeaveOrNot = 'Yes' THEN 1 ELSE 0 END) / COUNT(*) AS GroupLeaveProbability
FROM employee ei
JOIN CityLeaveRates clr ON ei.City = clr.City
GROUP BY ei.PaymentTier, ExperienceLevel, ei.City, clr.CityLeaveRate
ORDER BY ei.PaymentTier, ExperienceLevel, ei.City;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

PaymentTier	ExperienceLevel	City	CityLeaveRate	TotalEmployees	LeavingEmployees	GroupLeaveProbability
1	Low	Bangalore	0.7329	72	58	0.8056
1	Low	New Delhi	0.6837	33	23	0.6970
1	Low	Pune	0.4961	48	15	0.3125
1	Medium	Bangalore	0.7329	40	34	0.8500
1	Medium	New Delhi	0.6837	23	13	0.5652
1	Medium	Pune	0.4961	27	11	0.4074
2	Low	Bangalore	0.7329	41	12	0.2927
2	Low	New Delhi	0.6837	217	132	0.6083