Day 16 of 100 Data Science Interview Questions Series!!

Link to prev 70 Questions:
https://www.linkedin.com/posts/alaapdhall_day-15-for-100-data-science-interview-questions-activity-6723859606818369536-spEM

Q 71.) What is wrong with this query?

```
SELECT Id, YEAR(TrialDate) AS TrialYear

FROM Payments

WHERE TrialYear <= 2015;
```

Ans.) TrialYear will be assigned as the end, so you won't be able to use it as a filter on WHERE.

Instead, you should use:

```
WHERE YEAR(TrialDate) <= 2015
```

Q 72.) What is wrong with this query?

```
SELECT Id, TrialDate

FROM Payments

GROUP BY Id;
```

Ans.) There was no aggregate function on the TrialDate column. There needs to be an aggregate function, otherwise, the column should also be in the GROUP BY statement.

Q 73.) What is wrong with this query?

```
SELECT UserId, AVG(Total) AS AvgOrderTotal

FROM Invoices

HAVING COUNT(OrderId) >= 1
```

Ans.) Note the use of HAVING and the AVG function. There was no GROUP BY statement to accompany those statements, in other words, the SQL statement was missing. Having is generally used after group by.

Q 74.) Consider the two tables below.

Managers

Id	Name
1	Zach Allen
2	Bill Lee
3	Sandy Kim

Employees

Id	Name	ManagedBy
1	Jane Doe	NULL
2	Mark Smith	1
3	Sally Rogers	3

Write a query that retrieves all employees managed by Sandy Kim.

Ans.)

```
SELECT Employees.Name FROM Employees

    JOIN Managers ON
```

Employees.ManagedBy = Managers.Id

WHERE Managers.Name LIKE “Sandy Kim”

Q 75.) From the above tables, Write a query that retrieves all employees that have no manager.

Ans.) SELECT Name FROM Employees

WHERE ManagedBy Is Null

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