MBD Video

🕐 Created at	@Jun 28, 2021 10:37 AM
Σ Days Remaining	5 days remaining
📇 Due Date	@Jul 03, 2021 12:00 AM
⚙ Mata Kuliah	MBD
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Bagian:

1. Jelasin Star Schema + Dimensinya apa aja dan dipake buat **analisis apa**

2. Query Select buat ngehasilin informasi (**analisisnya apa?**) contoh: siapa pegawai yang paling banyak kontribusinya?

3. Procedure, Function, Trigger (kayanya gapake), buat ETL awal, pake index buat **analisis apa**

4. Relation Mapping

Analisis Apa?

1. siapa pegawai yang paling banyak kontribusinya di bulan februari?

```
select FirstName, LastName, SUM(TotalWork) AS TotalKontribusi from WH.FactTable F
join WH.Employee E on E.EmployeeKey = F.EmployeeKey
join WH.Time T on T.TimeKey = F.TimeKey
WHERE MonthNumber = 2
GROUP BY E.EmployeeKey, FirstName, LastName
ORDER BY TotalKontribusi DESC
```

2. pada bulan maret 2014, karyawan dengan umur berapakah yang memiliki kontribusi tertinggi?

```
select
  (CONVERT(int,CONVERT(char(8),'20150331',112))-CONVERT(char(8),BirthDate,112))/10
000 AS Umur,
    SUM(TotalWork) AS TotalKontribusi from WH.FactTable F
join WH.Employee E on E.EmployeeKey = F.EmployeeKey
join WH.Time T on T.TimeKey = F.TimeKey
```

```
WHERE MonthNumber = 3 AND Year = 2014
GROUP BY BirthDate
ORDER BY TotalKontribusi DESC
```

3. pada tahun 2014, kontribusi rata-rata terbanyak diperoleh oleh karyawan dengan status pernikahan apa?

```
select MaritalStatus, AVG(TotalWork) AS RataRataKontribusi from WH.FactTable F
join WH.Employee E on E.EmployeeKey = F.EmployeeKey
join WH.Time T on T.TimeKey = F.TimeKey
join WH.Marital M on M.MaritalKey = E.MaritalKey
WHERE Year = 2014
GROUP BY MaritalStatus
ORDER BY RataRataKontribusi DESC
```

4. siapa pegawai dan dari departemen apa yang paling banyak kontribusinya?

```
select FirstName, LastName, D.Name as DepartmentName, SUM(TotalWork) AS TotalKontr
ibusi from WH.FactTable F
join WH.Employee E on E.EmployeeKey = F.EmployeeKey
join WH.Department D on D.DepartmentKey = E.DepartmentKey
GROUP BY E.EmployeeKey, FirstName, LastName, D.Name
ORDER BY TotalKontribusi DESC
```

5. hubungan antara gaji yang diterima dengan kontribusi?

```
select PayRate, SUM(TotalWork) AS TotalKontribusi from WH.FactTable F
join WH.Employee E on E.EmployeeKey = F.EmployeeKey
GROUP BY PayRate
ORDER BY TotalKontribusi DESC
```

6. hubungan antara gender dengan rata-rata kontribusi?

```
select Gender, AVG(TotalWork) AS RataRataKontribusi from WH.FactTable F
join WH.Employee E on E.EmployeeKey = F.EmployeeKey
join WH.Gender G on G.GenderKey = E.GenderKey
GROUP BY Gender
ORDER BY RataRataKontribusi DESC
```

7. job title yang paling sedikit ngambil cuti dan izin sakit?

```
select T.JobTitle, AVG(VacationHours + SickLeaveHours) AS JatahCuti from WH.Employ
ee E
```

```
join WH.Title T on T.TitleKey = E.TitleKey
group by JobTitle
ORDER BY JatahCuti DESC
```

8. departemen yang paling banyak shift malamnya?

```
select D.Name, COUNT( E.ShiftKey ) as JumlahShiftMalam from WH.Employee E
join WH.Department D on D.DepartmentKey = E.DepartmentKey
join WH.Shift S on S.ShiftKey = E.ShiftKey
WHERE ShiftName = 'Night'
group by D.Name
order by JumlahShiftMalam DESC
```

9. hubungan antara status pernikahan dengan rata-rata gaji?

```
select MaritalStatus, AVG(PayRate) as RataRataGaji from WH.Employee E
join WH.Marital M on M.MaritalKey = E.MaritalKey
group by MaritalStatus
order by RataRataGaji DESC
```