

```
CREATE DATABASE Utilities
```

```
SELECT * FROM GasWaterElectricityUtilities
```

```
--Total Billing For Each Customer
```

```
SELECT Customer_Name,SUM(Bill_Amount) AS Total_Billing  
FROM GasWaterElectricityUtilities  
GROUP BY Customer_Name
```

```
--View
```

```
CREATE VIEW Total_Billing_By_Customer AS  
SELECT Customer_Name,SUM(Bill_Amount) AS Total_Billing  
FROM GasWaterElectricityUtilities  
GROUP BY Customer_Name
```

```
SELECT * FROM Total_Billing_By_Customer
```

```
--Total and Average Usage For Each Region
```

```
SELECT Region,SUM(Usage_kWh) AS Total_Usage,AVG(Usage_kWh) AS Average_Usage  
FROM GasWaterElectricityUtilities  
GROUP BY Region
```

```
--View
```

```
CREATE VIEW Total_and_Average_Usage_For_Each_Region AS  
SELECT Region,SUM(Usage_kWh) AS Total_Usage,AVG(Usage_kWh) AS Average_Usage
```

FROM GasWaterElectricityUtilities

GROUP BY Region

SELECT \* FROM Total\_and\_Average\_Usage\_For\_Each\_Region

--All Customers With Overdue Payment Status

SELECT Customer\_Name,SUM(Bill\_Amount)AS Total\_Bill\_Amount,Payment\_Status,Service\_Type

FROM GasWaterElectricityUtilities

WHERE Payment\_Status='Overdue'

GROUP BY Customer\_Name,Payment\_Status,Service\_Type

--View

CREATE VIEW Overdue\_Payment\_Status\_Customers\_Total\_Bill\_Amount AS

SELECT Customer\_Name,SUM(Bill\_Amount)AS Total\_Bill\_Amount,Payment\_Status,Service\_Type

FROM GasWaterElectricityUtilities

WHERE Payment\_Status='Overdue'

GROUP BY Customer\_Name,Payment\_Status,Service\_Type

SELECT \* FROM Overdue\_Payment\_Status\_Customers\_Total\_Bill\_Amount

--Total Billing Amount For Each Month

SELECT datename(Month, Billing\_Date) AS Month,

SUM(Bill\_Amount) AS Total\_Billing\_Amount

FROM GasWaterElectricityUtilities

GROUP BY Datename(Month,Billing\_Date),Month(Billing\_Date)

```
ORDER BY Month(Billing_Date)
```

```
--View
```

```
CREATE VIEW Billing_Trend_By_Month AS
```

```
SELECT datename(Month, Billing_Date) AS Month,
```

```
SUM(Bill_Amount) AS Total_Billing_Amount
```

```
FROM GasWaterElectricityUtilities
```

```
GROUP BY Datename(Month,Billing_Date),Month(Billing_Date)
```

```
SELECT * FROM Billing_Trend_By_Month
```

```
--Customers who joined within the last 2years
```

```
SELECT Customer_Name,Customer_Since
```

```
FROM GasWaterElectricityUtilities
```

```
WHERE DATEDIFF(Year,Customer_Since,Getdate()) = 2
```

```
--View
```

```
CREATE VIEW Recent_Customers AS
```

```
SELECT Customer_Name,Customer_Since
```

```
FROM GasWaterElectricityUtilities
```

```
WHERE DATEDIFF(Year,Customer_Since,Getdate()) = 2
```

```
SELECT * FROM Recent_Customers
```

```
--Customer with the highest usage per service type
```

```
SELECT Service_Type,MAX(Usage_kWh) AS Highest_Usage,Customer_Name
FROM GasWaterElectricityUtilities
GROUP BY Service_Type, Customer_Name
HAVING MAX(Usage_kWh) = (SELECT MAX(Usage_kWh) FROM GasWaterElectricityUtilities AS sub
WHERE sub.Service_Type = GasWaterElectricityUtilities.Service_Type)
ORDER BY Highest_Usage DESC
```

--Create View

```
CREATE VIEW Top_Users_Per_Service_Type AS
SELECT Service_Type,MAX(Usage_kWh) AS Highest_Usage,Customer_Name
FROM GasWaterElectricityUtilities
GROUP BY Service_Type, Customer_Name
HAVING MAX(Usage_kWh) = (SELECT MAX(Usage_kWh) FROM GasWaterElectricityUtilities AS sub
WHERE sub.Service_Type = GasWaterElectricityUtilities.Service_Type)
```

```
SELECT * FROM Top_Users_Per_Service_Type
```

```
SELECT Service_Type FROM GasWaterElectricityUtilities
```

--View

```
CREATE VIEW Service_Type AS
SELECT Service_Type FROM GasWaterElectricityUtilities
```

```
SELECT * FROM Service_Type
```

```
SELECT SUM(Bill_Amount) AS Total_Bill_Amount
```

```
FROM GasWaterElectricityUtilities
```

```
CREATE VIEW Total_Bill_Amount AS
```

```
SELECT SUM(Bill_Amount) AS Total_Bill_Amount
```

```
FROM GasWaterElectricityUtilities
```

```
SELECT * FROM Total_Bill_Amount
```