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## 1) Separating date into month and year.
SELECT
 EXTRACT(MONTH FROM Date) AS Month,
 EXTRACT(YEAR FROM Date) AS Year,*
FROM `metal-complex-394210.Bill_Analysis.bill`
ORDER BY Date
## 2) Which month had the highest total bill?
SELECT Date, Total_Bill
FROM `metal-complex-394210.Bill_Analysis.bill`
WHERE Total_Bill = (SELECT MAX(Total_Bill) FROM `metal-complex-
394210.Bill_Analysis.bill`)
## 3) Which month had the highest electricity bill?
SELECT Date, Electricity_Bill
FROM `metal-complex-394210.Bill_Analysis.bill`
WHERE Electricity_Bill = (SELECT MAX(Electricity_Bill) FROM `metal-complex-
394210.Bill_Analysis.bill`)
## 4) Which month had the highest water bill?
SELECT Date, Water_Bill
FROM `metal-complex-394210.Bill_Analysis.bill`
WHERE Water_Bill = (SELECT MAX(Water_Bill) FROM `metal-complex-
394210.Bill_Analysis.bill`)
## 5) Which month had the highest sewer bill?
SELECT Date, Sewer_Bill
FROM `metal-complex-394210.Bill_Analysis.bill`
WHERE Sewer_Bill = (SELECT MAX(Sewer_Bill) FROM `metal-complex-
394210.Bill_Analysis.bill`)
## 6) Which month had the lowest total bill?
SELECT Date, Total_Bill
FROM `metal-complex-394210.Bill_Analysis.bill`
WHERE Total_Bill = (SELECT MIN(Total_Bill) FROM `metal-complex-
394210.Bill_Analysis.bill`)
## 7) Which month had the lowest electricity bill?
SELECT Date, Electricity_Bill
FROM `metal-complex-394210.Bill_Analysis.bill`
WHERE Electricity_Bill = (SELECT MIN(Electricity_Bill) FROM `metal-complex-
394210.Bill_Analysis.bill`)
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## 8) Average of total bill, electric, water and sewer.
SELECT AVG(Total_Bill) AS total_bill_avg, AVG(Electricity_Bill) AS electric_bill_avg,
AVG(Water_Bill) AS water_bill_avg, AVG(Sewer_Bill) AS sewer_bill_avg
FROM `metal-complex-394210.Bill_Analysis.bill`
## 9) For how many monthss was the total bill >200 and less than 100.
SELECT COUNT(*) AS number_of_months_with_geq_200
FROM `metal-complex-394210.Bill_Analysis.bill`
WHERE Total_Bill >= 200
SELECT COUNT(*) AS number_of_months_with_leq_100
FROM `metal-complex-394210.Bill_Analysis.bill`
WHERE Total_Bill <= 100
## 10) Average bill year over year.
SELECT
 EXTRACT(YEAR FROM Date) AS Year, ROUND(AVG(Total_Bill),2) AS avg_total_bill
FROM `metal-complex-394210.Bill_Analysis.bill`
GROUP BY Year
ORDER BY Year
## 11) Average bill month over month.
SELECT
 EXTRACT(MONTH FROM Date) AS Month, ROUND(AVG(Total_Bill),2) AS avg_total_bill
FROM `metal-complex-394210.Bill_Analysis.bill`
GROUP BY Month
ORDER BY Month
```