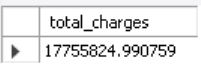
**Healthy Life Insurance Charges MySQL QUERY DOCUMENT**

**Insurance Charges REPORT | SUMMARY : BY Shivanand S Nashi**

**1. Total insurance charges across all individuals:**

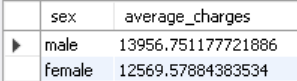
**SELECT SUM(charges) AS total\_charges FROM insurance;**

****

**2. Average charges by gender:**

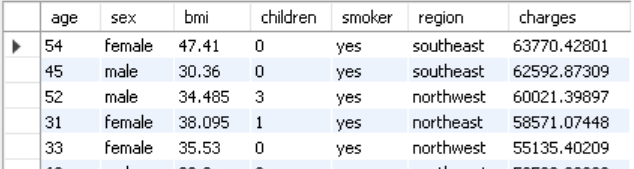
**SELECT sex, AVG(charges) AS average\_charges**

**FROM insurance GROUP BY sex ORDER BY average\_charges DESC;**



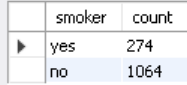
**3. Top 10 highest charges:**

**SELECT \* FROM insurance ORDER BY charges DESC LIMIT 10;**

****

**4. Count of individuals based on smoking status:**

**SELECT smoker, COUNT(\*) AS count FROM insurance GROUP BY smoker;**

****

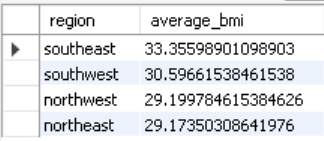
**5. Average BMI by region:**

**SELECT region, AVG(bmi) AS average\_bmi**

**FROM insurance**

**GROUP BY region**

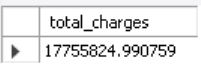
**ORDER BY average\_bmi DESC;**

****

**6. Region contributing the highest total charges:**

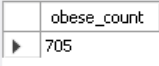
**SELECT region, SUM(charges) AS total\_charges**

**FROM insurance GROUP BY region ORDER BY total\_charges DESC LIMIT 1;**

****

**7. Number of individuals with BMI greater than 30 (indicating obesity):**

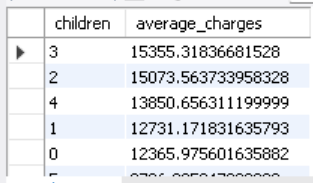
**SELECT COUNT(\*) AS obese\_count FROM insurance WHERE bmi > 30;**

****

**8. Correlation between the number of children and charges:**

**SELECT children, AVG(charges) AS average\_charges**

**FROM insurance GROUP BY children ORDER BY average\_charges DESC;**

****

**9. Percentage of smokers in the dataset:**

**SELECT (COUNT(\*) \* 100.0 / (SELECT COUNT(\*) FROM insurance)) AS smoker\_percentage**

**FROM insurance WHERE smoker = 'yes';**

****

**10. Age group with the highest average charges:**

**SELECT CASE**

**WHEN age BETWEEN 18 AND 25 THEN '18-25'**

**WHEN age BETWEEN 26 AND 35 THEN '26-35'**

**WHEN age BETWEEN 36 AND 45 THEN '36-45'**

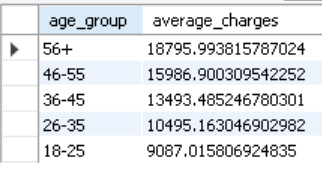
**WHEN age BETWEEN 46 AND 55 THEN '46-55'**

**ELSE '56+'**

**END AS age\_group,**

**AVG(charges) AS average\_charges**

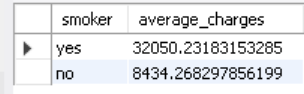
**FROM insurance GROUP BY age\_group ORDER BY average\_charges DESC;**

****

**11. Effect of smoking on charges (smokers vs. non-smokers):**

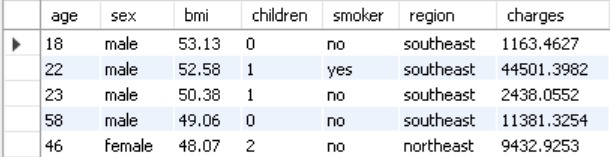
**SELECT smoker, AVG(charges) AS average\_charges**

**FROM insurance GROUP BY smoker ORDER BY average\_charges DESC;**

****

**12. Top 5 individuals with the highest BMI:**

**SELECT \* FROM insurance ORDER BY bmi DESC LIMIT 5;**

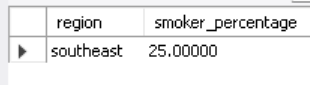
****

**13. Region with the highest percentage of smokers:**

**SELECT region,**

**(COUNT(CASE WHEN smoker = 'yes' THEN 1 END) \* 100.0 / COUNT(\*)) AS smoker\_percentage**

**FROM insurance GROUP BY region ORDER BY smoker\_percentage DESC LIMIT 1;**

****

**14. Average charges for individuals with and without children:**

**SELECT CASE**

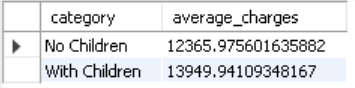
**WHEN children > 0 THEN 'With Children'**

**ELSE 'No Children'**

**END AS category,**

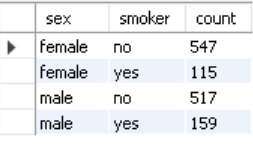
**AVG(charges) AS average\_charges**

**FROM insurance GROUP BY category;**

****

**15. Gender-wise count of smokers:**

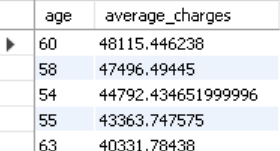
**SELECT sex, smoker, COUNT(\*) AS count FROM insurance GROUP BY sex, smoker ORDER BY sex, smoker;**

****

**16. Age and charges relationship for smokers:**

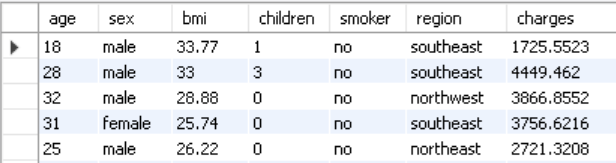
**SELECT age, AVG(charges) AS average\_charges**

**FROM insurance WHERE smoker = 'yes' GROUP BY age ORDER BY average\_charges DESC;**

****

**17. Identify individuals who are likely overweight (BMI > 25) but have low charges (< $5,000):**

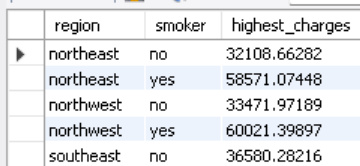
**SELECT \* FROM insurance WHERE bmi > 25 AND charges < 5000;**

****

**18. Highest charges in each region by smoker status:**

**SELECT region, smoker, MAX(charges) AS highest\_charges**

**FROM insurance GROUP BY region, smoker ORDER BY region, smoker;**

****

**19. Distribution of individuals by BMI categories (Underweight, Normal, Overweight, Obese):**

**SELECT CASE**

**WHEN bmi < 18.5 THEN 'Underweight'**

**WHEN bmi BETWEEN 18.5 AND 24.9 THEN 'Normal'**

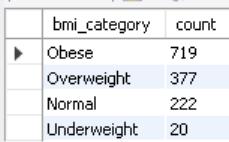
**WHEN bmi BETWEEN 25 AND 29.9 THEN 'Overweight'**

**ELSE 'Obese'**

**END AS bmi\_category,**

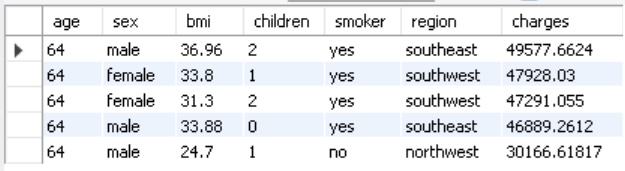
**COUNT(\*) AS count**

**FROM insurance GROUP BY bmi\_category ORDER BY count DESC;**

****

**20. Top 5 oldest individuals with the highest insurance charges:**

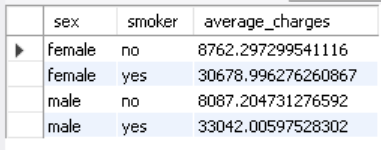
**SELECT \* FROM insurance ORDER BY age DESC, charges DESC LIMIT 5;**

****

**21. Average charges by gender and smoking status:**

**SELECT sex, smoker, AVG(charges) AS average\_charges**

**FROM insurance GROUP BY sex, smoker ORDER BY sex, smoker;**

****

**22. Effect of having children on charges for smokers and non-smokers:**

**SELECT smoker,**

**CASE**

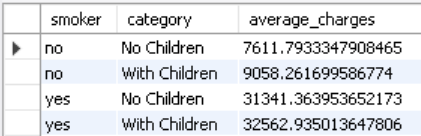
**WHEN children > 0 THEN 'With Children'**

**ELSE 'No Children'**

**END AS category,**

**AVG(charges) AS average\_charges**

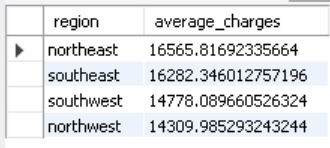
**FROM insurance GROUP BY smoker, category ORDER BY smoker, category;**

****

**23. Identify regions where individuals with BMI > 30 have the highest average charges:**

**SELECT region, AVG(charges) AS average\_charges**

**FROM insurance WHERE bmi > 30 GROUP BY region ORDER BY average\_charges DESC;**

****