----- SQL Query Questions for Retail Sales Analysis -----

1. **How many Sales we have ?**

* Select

count(\*) as total\_sales

from Sales\_table;

1. **How many total customer sales we have ?**

* select

count(customer\_id) as total\_customer\_

sales from Sales\_table;

1. **How many unique customer sales we have ?**

* select

count( distinct customer\_id) as customer\_sales

from Sales\_table;

1. **How many unique category we have ?**

* select

count( distinct category) as category\_sales

from Sales\_table;

1. **Name the unique category we have ?**

* select

distinct category

from Sales\_table;

* **Data Analysis and Business key problems**

1. **Write the sql query to retrieve all the column for sales made on “ 2022-11-05” ?**

* select \*from Sales\_table

where sale\_date = '2022-11-05';

1. **write a sql query to retrieve all transcation where the category is “clothing “ and quantity will be hold than more than 4 in one month of nov-2022 ?**

* select \*from Sales\_table

where category = 'Clothing' and to\_char(sale\_date,'YYYY-MM')='2022-11' and quantiy >=4;

1. **write a sql query to calculate the total sales for each category ?**

* select

category,

sum(total\_sale) as net\_sale,

count(\*) as total\_order from

Sales\_table group by 1;

1. **write a sql query to find the average age of customers who purchases the items from beauty category ?**

* select

round(avg(age),2) as avg\_age

from Sales\_table where category = 'Beauty';

1. **write a sql query to find all the transcations where the total\_sale is greater than 1000 ?**

* select \*from Sales\_table

where total\_sale >1000;

1. **write a sql query to find the total number of transcations (transcation\_id) made by each gender in each category ?**

* select

category,

gender,

count(\*) as total\_transcation

from Sales\_table

group by category,

gender order by 1 ;

1. **write a sql query to calculate the average sales of each month . Also find out the best selling month ?**

select

year,

month,

avg\_sales

from

(

select

extract(year from sale\_date) as year,

extract(month from sale\_date) as month,

avg(total\_sale) as avg\_sale,

rank() over(partition by extract(year from sale\_date) order by avg(total\_sale) desc ) as rank

from Sales\_table

group by 1,2

) as t1

where rank =1;

1. **write a sql query find out the top 5 customers based on the higest sales ?**

* select

customer\_id,

sum(total\_sales) as total\_sales from Sales\_table

group by 1

order by 2 desc

limit 5;

1. **write a sql query to find out the number of unique customers who purchases the items from each category ?**

* select

category ,

count(distinct customer\_id ) as unique\_cust

from Sales\_table

group by category;