// Count of active policies:

Select policy_type, count(*) as active_policies

from Project_Insurance_policy_2

Where end_date>current_date

Group by policy_type;

Result:

	POLICY_TYPE	ACTIVE_POLICIES
1	Car	6
2	Bike	4
3	Truck	5

--Sum of amounts based on vehicle type

Select policy_type,Count(pt.policy_type), sum(premium_amount) as sum_premium_policies

from Project_Insurance_policy_2 pt

Group by pt.policy_type

order by sum_premium_policies desc;

	POLICY_TYPE	COUNT(PT.POLICY_TYPE)	SUM_PREMIUM_POLICIES
1	Truck	7	70000
2	Car	8	24000
3	Bike	5	5000

//Total policies sold by agent

Select A.Agent_name,count(p.Policy_ID) as total_policies_sold,Sum(s.sale_amount) as total_sale_amount

from policy_sales_2 s

Join project_insurance_agent_2 A on s.agent_id = A.Agent_id

Join Project_insurance_Policy_2 p on s.policy_id = p.Policy_ID

Group by A.Agent_name;

	AGENT_NAME	TOTAL_POLICIES_SOLD	TOTAL_SALE_AMOUNT
1	Lily Pink	1	1000
2	Rita Green	1	10000
3	Henry White	1	10000
4	Quinn Blue	1	3000
5	Steve Purple	1	3000
6	Tina Brown	1	10000
7	Grace Blue	1	1000
8	Paul Orange	1	10000
9	Mason Yellow	1	3000
10	Alice Walker	1	3000
11	Ursula Silver	1	3000
12	Bob Green	1	1000
13	Fred Green	1	3000
14	Nina Grey	1	10000
15	Ivy Black	1	3000
16	Jack Red	1	10000

//Average premium amount by customer age group

```
SELECT  CASE

      WHEN age BETWEEN 18 AND 30 THEN '18-30'

      WHEN age BETWEEN 31 AND 40 THEN '31-40'

      WHEN age BETWEEN 41 AND 50 THEN '41-50'

      WHEN age BETWEEN 51 AND 60 THEN '51-60'

      ELSE '60+'

    END AS  Age_Group,

    AVG(Premium_amount) AS Average_Premium

FROM Project_Insurance_Customer_2 c

JOIN Project_insurance_Policy_2 p ON c.Customer_id = p.Customer_ID

GROUP BY case WHEN age BETWEEN 18 AND 30 THEN '18-30'

      WHEN age BETWEEN 31 AND 40 THEN '31-40'

      WHEN age BETWEEN 41 AND 50 THEN '41-50'

      WHEN age BETWEEN 51 AND 60 THEN '51-60'

      ELSE '60+'

    END;
```

	AGE_GROUP	AVERAGE_PREMIUM
1	51-60	4667
2	41-50	6167
3	18-30	3750
4	31-40	4714

//Agent Performance (Total Sales and Commission)

    select a.Agent_name, count(ps.Sale_ID) AS Total_Sales, sum(ps.sale_amount) as Total_Sales_Amount,

    sum(ps.sale_amount) * a.commission_rate / 100 AS Total_Commission

from policy_sales_2 ps

join project_insurance_agent_2 a ON ps.agent_id = a.Agent_id

group by a.Agent_name, a.commission_rate;

--Gender wise customer counts with policy types

Select p.policy_type, c.gender, count(c.Customer_id) as customer_count

from project_insurance_customer_2 c

Join Project_Insurance_policy_2 p on c.Customer_id = p.Customer_id

GROUP BY p.Policy_type, c.gender;

	POLICY_TYPE	GENDER	CUSTOMER_COUNT
1	Bike	F	3
2	Truck	M	4
3	Car	M	4
4	Bike	M	2
5	Truck	F	3
6	Car	F	4

//calculating the expiring date and informed before 30 days.

SELECT Policy_ID,start_date,end_date,round(abs(sysdate-end_date),0) as Remaining_Days,

Case

When round(abs(sysdate-end_date),0)<=30 then 'renew immediately'

When round(abs(sysdate-end_date),0)>30 and round(abs(sysdate-end_date),0)<=60 then 'renew within 60 days'-- COUNT(*) AS Expiring_Policies

else 'Existing validity'

end as policy_renewal

FROM Project_insurance_Policy_2;

	POLICY_ID	START_DATE	END_DATE	REMAINING_DAYS	POLICY_RENEWAL
1	P001	01-01-24	01-01-25	20	renew immediately
2	P002	01-01-24	01-01-25	20	renew immediately
3	P003	01-01-24	01-01-25	20	renew immediately
4	P004	01-01-24	01-01-25	20	renew immediately
5	P005	01-01-24	01-01-25	20	renew immediately
6	P006	01-02-24	01-02-25	11	renew immediately
7	P007	15-02-24	15-02-25	25	renew immediately
8	P008	01-03-24	01-03-25	39	renew within 60 days
9	P009	10-03-24	10-03-25	48	renew within 60 days
10	P010	01-04-24	01-04-25	70	Existing validity
11	P011	15-04-24	15-04-25	84	Existing validity
12	P012	01-05-24	01-05-25	100	Existing validity
13	P013	10-05-24	10-05-25	109	Existing validity

//Total Claim amount by policy types

SELECT p.Policy_type, COUNT(c.claim_id) AS total_claims, SUM(c.Claim_amount) AS total_claim_amount

FROM Project_insurance_Policy_2 p

JOIN project_insurance_claim_2 c ON p.policy_id = c.policy_id

GROUP BY p.Policy_type;

	POLICY_TYPE	TOTAL_CLAIMS	TOTAL_CLAIM_AMOUNT
1	Car	8	51500
2	Bike	5	26000
3	Truck	7	80000

//Finding Top 3 customers of premium_amount:

select Customer_id,first_name,last_name,Premium_amount,rank

from

(

select

c.customer_id,

c.first_name,

c.last_name,

sum(p.Premium_amount)as premium_amount,

dense_rank() over(order by sum(p.Premium_amount) desc) as RANK

from project_insurance_customer_2 c

join project_insurance_policy_2 p on c.Customer_id = p.Customer_id

group by c.customer_id,c.first_name,c.last_name

)ranked_customers

where rank<=3;

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	PREMIUM_AMOUNT	RANK
1	C016	Charlotte	Wright	10000	1
2	C013	Alexander	Gonzalez	10000	1
3	C008	Olivia	Martinez	10000	1
4	C019	William	Baker	10000	1
5	C005	Michael	Miller	10000	1
6	C003	Robert	Brown	10000	1
7	C010	Isabella	Rodriguez	10000	1
8	C001	John	Doe	3000	2
9	C020	Ella	Nelson	3000	2
10	C009	James	Garcia	3000	2
11	C012	Amelia	Lopez	3000	2
12	C006	Sophia	Taylor	3000	2
13	C015	Ethan	King	3000	2