

Demo Use-Case 3 – Sentiment Analysis Using SNOWFLAKE.CORTEX.SENTIMENT

Step 1 – Create a Review Table

```
CREATE OR REPLACE TABLE PRODUCT_REVIEWS (  
  id INTEGER,  
  review_text STRING  
);  
  
INSERT INTO PRODUCT_REVIEWS VALUES  
(1, 'The product quality is amazing, I absolutely loved it!'),  
(2, 'Terrible experience. Nothing worked as expected.'),  
(3, 'It was okay, not great, not terrible.'),  
(4, 'The packaging was damaged but customer support helped quickly.');
```

Step 2 — Run Sentiment Analysis (Basic Test)

Just test the function:

```
SELECT SNOWFLAKE.CORTEX.SENTIMENT('This is a sample review') AS  
sentiment_score;
```

Output example:

```
0.82  → positive  
-0.77 → negative  
0.00  → neutral
```

Step 3 — Apply Sentiment Analysis on Full Table

```
SELECT  
  id,  
  review_text,  
  SNOWFLAKE.CORTEX.SENTIMENT(review_text) AS sentiment_score  
FROM PRODUCT_REVIEWS;
```

Step 4 — Categorize Results (Positive/Neutral/Negative)

```
SELECT
  id,
  review_text,
  SNOWFLAKE.CORTEX.SENTIMENT(review_text) AS score,
  CASE
    WHEN SNOWFLAKE.CORTEX.SENTIMENT(review_text) > 0.3 THEN 'Positive'
    WHEN SNOWFLAKE.CORTEX.SENTIMENT(review_text) < -0.3 THEN 'Negative'
    ELSE 'Neutral'
  END AS sentiment_label
FROM PRODUCT_REVIEWS;
```

Step 5 — Compute Average Sentiment

```
SELECT AVG(SNOWFLAKE.CORTEX.SENTIMENT(review_text)) AS avg_sentiment
FROM PRODUCT_REVIEWS;
```

Step 6 — Group Sentiment by Category

```
SELECT
  CASE
    WHEN SNOWFLAKE.CORTEX.SENTIMENT(review_text) > 0.3 THEN 'Positive'
    WHEN SNOWFLAKE.CORTEX.SENTIMENT(review_text) < -0.3 THEN 'Negative'
    ELSE 'Neutral'
  END AS sentiment_group,
  COUNT(*) AS total
FROM PRODUCT_REVIEWS
GROUP BY 1;
```