1. **Return the name and purchase amount of the five customers in each state who have spent the most on our site.**

SELECT

transactions.transact\_id,

transactions.customer\_id,

products.product\_cost,

customers.name,

customers.state

FROM

transactions

JOIN

products

ON

transactions.product\_id = products.product\_id

JOIN

customers

ON

customers.customer\_id = transactions.customer\_id

GROUP BY

customers.state, customers.name, products.product\_cost

ORDER BY product\_cost desc LIMIT 5

1. **Name the most popular item in every state and the state**

SELECT

products.product\_name,

customers.state,

COUNT(products.product\_id)

FROM

transactions

JOIN

products

ON

transactions.product\_id = products.product\_id

JOIN

customers

ON

customers.customer\_id = transactions.customer\_id

GROUP BY

1,2

ORDER BY

3 desc LIMIT 1

1. **The five most popular items for users with a ‘gmail’ email in the past 30 days, based on number of sales.**

WITH

gmail\_customers

AS (

SELECT

customer\_id

FROM

customers

WHERE

LOWER(e-mail) LIKE ‘%gmail%’

)

SELECT

products.product\_name,

COUNT(products.product\_id)

FROM

transactions

JOIN

gmail\_customers

ON

transactions.customer\_id = gmail\_customers.customer\_id

JOIN

products

ON

products.product\_id = transactions.product\_id

GROUP BY

1

ORDER BY

2 desc LIMIT 5