CRISPS Schema Questions

1. Create a view called CRIPSEATEN that will hold the names of all clients and the types of crisp they’ve eaten – if any.
2. Write a query to return every consumers name and the number of different types of crisps eaten.
3. Write a query to return the name of any consumers who have eaten the same type of crisp.
4. What crisps have not been eaten?
5. Using views to help you, write queries to return the names of clients who:
   1. have eaten c&o or a s&v crisps
   2. have eaten both c&o and s&v
   3. have eaten c&o but not s&v
   4. have eaten s&v but not c&o
   5. have eaten either s&v or c&o, but not both.

Answers

/\* 1 \*/

create or replace view CrispsEeaten as

select consumer.\*,has\_eaten.quantity,crisp\_type.cp\_name

from consumer

left join has\_eaten on consumer.consumerid=has\_eaten.consumerid

left join crisp\_type on crisp\_type.crispkey=has\_eaten.crispkey

/\* 2 \*/

Select cn\_name, cp\_name, sum(quantity)

FROM CrispsEaten

GROUP by cn\_name, cp\_name

ORDER BY cn\_name,cp\_name

/\* 3 Write a query to return the name of any consumers who have eaten the same type of crisp.

Crisp, consumers

\*/

SELECT DISTINCT cn\_name FROM CrispsEaten

WHERE cp\_name IN (

Select cp\_name from CrispsEaten

GROUP BY cp\_name HAVING count(\*)>1)

/\* 4 What crisps have not been eaten?

\*/

SELECT cp\_name

FROM crisp\_type ct

WHERE crispkey NOT IN (SELECT crispkey from HAS\_EATEN)

/\* 5 \*/

create or replace view cando as

select \* from crispseaten

where cp\_name is not null and cp\_name like '%Cheese%'

create or replace view sandv as

select \* from crispseaten

where cp\_name is not null and cp\_name like '%Salt%'

/\* A C&O or a S&V crisp\*/

select cn\_name "CO or Salt" from cando

union

select cn\_name from sandv ;

/\* A C&O and a S&V crisp \*/

select cn\_name "co and sv" from cando

intersect

select cn\_name from sandv;

/\* A C&O but not a S&V crisp \*/

select cn\_name "co not sv" from cando

minus

select cn\_name from sandv;

/\* A S&V but not a C&O crisp \*/

select cn\_name "sv not co" from sandv

minus

select cn\_name from cando;

/\* c&o or a s&v, but not both \*/

select cn\_name "co XOR sv " from cando

union

select cn\_name from sandv

minus

(

select cn\_name "co and sv" from cando

intersect

select cn\_name from sandv

);