1. σ products\_model = NULL(products)
2. σ products\_price > 500 ∧ products\_price < 699 (products)
3. σ orders\_status\_name = “processing” (products

⨝orders\_products.orders\_id = products.products\_id orders\_products

⨝orders\_products.orders\_id = orders,orders\_id orders

⨝orders\_status.orders\_status\_id = orders,orders\_id orders\_status)

1. σ categories\_name = “Leather Laptop Cases” (products

⨝products.products\_id = products\_to\_categories.products\_id products\_to categories

⨝categories.categories\_id = products\_to\_categories.categories\_id categories

⨝categories.categories\_id = categories\_description.categories\_id categories\_description)

1. σ ­categories.categories\_keywords LIKE “%women%” ∨ categories\_description.categories\_name LIKE “%women%” (categories⨝categories\_description)

1. σ date\_added LIKE “2014” (categories⨝categories\_description)
2. σ date\_added < '2014-1-1' ∧ last\_modified = NULL ∨ last\_modified = date\_added (categories)
3. σ(products ⨝products.products\_id = products\_to\_categories.products\_id products\_to categories ⨝categories.categories\_id = products\_to\_categories.categories\_id categories)
4. σ categories\_name = “Tote Bags” (products

⨝products.products\_id = products\_to\_categories.products\_id products\_to categories

⨝categories.categories\_id = products\_to\_categories.categories\_id categories

⨝categories.categories\_id = categories\_description.categories\_id categories\_description)

1. σ ¬(products\_model LIKE “BAG%”)(products)