# Ryan Demboski

# Comparisons

All the following exercises use the “supermarket” database

1. Id and type of items where price is $9.37

*SELECT item\_id FROM cartitem WHERE price = 9.37;*

*Output = ‘5902’*

1. Name and price of items where price is smaller than $10

*SELECT name, price FROM item WHERE price < 10.0;*

*Output = ‘thingie 9.3700, gewgaw 5.0000, bric-a-brac 2.0000,*

*folderol 4.0000, jigger 6.0000, gimmick 9.3700, dingbat 9.3700’*

1. Name and type of items where name is smaller than letter E

*SELECT name, type FROM item WHERE name < ‘E’;*

*Output = ‘dingus gizmos, bric-a-brac widgets, doohickey widgets,*

*dingbat gizmos, contraption widgets’*

1. All attributes of items that don’t have a price

*SELECT \* FROM item WHERE price IS NULL;*

*Output = ‘5911 thingamajig widgets NULL’*

1. Id and price of items where price bigger than $10

*SELECT id, price FROM item WHERE price > 10.0;*

*Output = ‘5022 19.37, 5023 29.37, 5043 15.0, 5901 12.0, 5912 22.22,*

*5913 22.22, 5931 49.95, 5932 59.95, 5937 93.7’*

1. All customer information for C. Brown

*SELECT \* FROM customer WHERE name = “C. Brown”;*

*Output = ‘750 C. Brown 789 Sesame St., Eureka, KS See billing address’*

1. Name and price of items where the price is between $5 and $10, inclusive

*SELECT name, price FROM item WHERE (*

*price >= 5.0 && price <= 10.0);*

*Output = ‘thingie 9.37, gewgaw 5.0, knickknack 10.0, jigger 6.0,*

*gimmick 9.37, dingbat 9.37’*

1. See number 7, but exclusive

*SELECT name, price FROM item WHERE (*

*price > 5.0 && price < 10.0);*

*Output = ‘thingie 9.37, jigger 6.0, gimmick 9.37, dingbat 9.37’*

1. Set the price of the item with name “whatsis” to $97.30

*UPDATE item SET price = 97.30 WHERE name = whatsis;*

*Output = none*

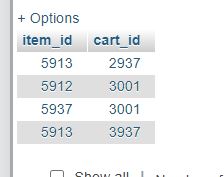
1. Return all “cart id” and “item id”, with these same names, for customer with id 750. (Hint: you will want to do a join)

*SELECT cartitem.item\_id, cartitem.cart\_id*

*FROM customer INNER JOIN cart ON customer.id = cast.customer\_id*

*INNER JOIN cartitem ON cart.id = cartitem.cart\_id*

*WHERE cart.customer\_id = 750 ;*

*Output = *

1. Return all names and types of items with a name that starts with “thing”

*SELECT name, type FROM item WHERE name LIKE ‘%thing%’;*

*Output = ‘thingie widgets, thingamajig widgets, thingamabob doodads, thingum gizmos’*

1. Return “customer name” and “billing address” (with these very same attribute names) of customers with a house number that has a ‘6’ at the third position

*SELECT name AS “customer name”, billaddr AS “billing address”*

*FROM customer WHERE billaddr LIKE “\_\_6%”;*

*Output = ‘B. Smith 456 Sesame St. Eureka KS, D. White 246 Sesame St. Eureka KS’*

1. Return the name and price of items that are between $5 and $10. Use the keyword BETWEEN

*SELECT name, price FROM item WHERE price BETWEEN 5.0 AND 10.0;*

*Output = ‘thingie 9.37, gewgaw 5.0, knickknack 10.0, jigger 6.0, gimmick 9.37, dingbat 9.37’*

1. Return the name and price of items that have a type of ‘widgets’ and where the price is between $10 and $20

*SELECT name, price FROM item*

*WHERE type = “widgets” && price BETWEEN 10.0 AND 20.0;*

*Output = ‘doohickey 12.0’*

1. Return item id where the type is “doodads” and there is no price.

*SELECT id FROM item*

*WHERE type = “doodads” && price IS NULL;*

*Output = None*

1. Return the customer id, name and billing address of customers with name A. Jones or B.Smith.

*SELECT id, name, billaddr FROM customer*

*WHERE name = “A. Jones” || name = “B. Smith”;*

*Output = ‘710 A. Jones 123 Sesame St. Eureka KS, 730 B. Smith 456 Sesame St. Eureka KS’*

1. For the customers above, return their names, cart ids and item name but only for item thingum.

*SELECT customer.name, cartitem.cart\_id, item.name AS “item”*

*FROM customer INNER JOIN cart ON customer.id = cart.customer\_id*

*INNER JOIN cartitem ON cart.id = cartitem.cart\_id*

*INNER JOIN item ON item.id = cartitem.item\_id*

*WHERE item.name = “thingum” &&*

*(customer.name = “A. Jones || customer.name = “B. Smith);*

*Output = ‘A. Jones 2131 thingum’*