Create a SQL script and results for each exercise

1. For each item, list its id, description, and the id and description of its category.

```
[sqlite> select Item.item_id, Item.item_desc, Category.cat_id, Category.cat_desc
from Item, Category where Item.item_cat_id = Category.cat_id;
1  |  Pencil  |  3  |  Office supplies
2  |  Desk  |  4  |  Furniture
3  |  Binder  |  1  |  Organization
4  |  Folder  |  1  |  Organization
5  |  Notebook  |  2  |  Paper
6  |  Post-it Notes  |  2  |  Paper
7  |  chair  |  4  |  Furniture
```

2. For each order that is not from a customer in the state of FL (Florida), list the customer name (first and last) and the address, city, state, and zip with the order date and order payment method.

```
[sqlite> select Customer.c_first, Customer.c_last, Customer.c_addr_line1, Customer.c_city, Custome
r.c_state, Customer.c_zip, Orders.ord_date, Orders.Ord_methodof_payment from Customer, Orders whe
re Customer.c_id = Orders.ord_c_id AND Customer.c_state != 'FL';
Sharon  |  Wulf  |  195 College Blvd.  |  Newton  |  GA  |  37812  |  2012-05-29  |  CC
Michael  |  Elmes  |  172 Alto Park  |  Seattle  |  WA  |  42180  |  2012-05-31  |  CHECK
Diana  |  Strong  |  850 East Main  |  Santa Ana  |  MA  |  51875  |  2012-05-31  |  CC
Loiacono  |  Eleanor  |  994 Kirkman Rd.  |  Northpoint  |  NY  |  11795  |  2012-06-01  |  CC
Norm  |  Wilkinson  |  348 Rice Lane  |  Radcliff  |  WY  |  87195  |  2012-06-01  |  CC
```

3. List the description of all items that are included in order number **5 (was 2)**.

```
[sqlite> select Item.item_desc from Item, Orders, order_detail, Inventory  where Orders.ord_id = o
rder_detail.od_o_id AND order_detail.od_inv_id = Inventory.inv_id AND Inventory.inv_item_id = Ite
m.item_id AND Orders.ord_id=5;
Binder
Folder
```

4. For each customer who purchased "Binder", list his/her name (first and last), complete mailing address (address, city, state and zip code), daytime phone number and how many he/she purchased.

```
[sqlite> select Customer.c_first, Customer.c_last, Customer.c_addr_line1, Customer.c_city, Custome
r.c_state, Customer.c_zip, Customer.c_ephone, order_detail.od_quantity from Customer, order_detai
l, Item, Inventory, Orders where Customer.c_id = Orders.ord_c_id AND Orders.ord_id = order_detail
.od_o_id AND order_detail.od_inv_id = Inventory.inv_id AND Inventory.inv_item_id = Item.item_id A
ND Item.item_desc = 'Binder';
Loiacono  |  Eleanor  |  994 Kirkman Rd.  |  Northpoint  |  NY  |  11795  |  4825558219  |  1
Norm  |  Wilkinson  |  348 Rice Lane  |  Radcliff  |  WY  |  87195  |  7615553319  |  3
```

5. List the total number of categories of items.

```
[sqlite> select count(Category.cat_desc) from Category;
4
```

6. List the number of blue items that are in stock (which means QOH>0) for a price less than 50.

```
[sqlite> select count(inv_item_id) from Inventory where inv_color = 'Blue'AND inv_QOH > 0 AND inv_
item_price < 50;
3
```

7. For the item whose id is 5, list its inventory id, color, **size (added)**, and the value of that inventory (the quantity on hand * its price).

```
[sqlite> select Inventory.inv_id, Inventory.inv_color, Inventory.inv_size, Inventory.inv_QOH * Inv
entory.inv_item_price AS Value from Inventory where inv_item_id=5;
15  |  Turquoise   |  10  |  1934.79
16  |  Turquoise   |  11  |  1774.89
17  |  Turquoise   |  12  |  1806.87
18  |  Turquoise   |  1   |  1934.79
19  |  Bright Pink |  10  |  2366.52
20  |  Bright Pink |  11  |  2190.63
21  |  Bright Pink |  12  |  2142.66
22  |  Bright Pink |  1   |  1966.77
```

8. For each item, list the item id, item description, and minimum quantity on hand across its color-size combinations.

```
[sqlite> Select Item.item_id, Item.item_desc, Inventory.inv_QOH from Item, Inventory where Item.it
em_id = Inventory.inv_item_id AND Inventory.inv_QOH = (SELECT min(Inventory.inv_QOH) from Invento
ry where Item.item_id = Inventory.inv_item_id) Group by inv_color, inv_size Order by item_id;
1  |  Pencil  |  0
2  |  Desk  |  12
3  |  Binder  |  0
4  |  Folder  |  0
5  |  Notebook  |  111
6  |  Post-it Notes  |  50
7  |  chair  |  100
7  |  chair  |  100
7  |  chair  |  100
```

9. For orders that have more than 1 order line, list it order id, order date, the last name of the customer, and a count of the order lines.

```
[sqlite> select Orders.ord_id, Orders.ord_date, Customer.c_last, count(order_detail.od_quantity) fro]
m Orders, Customer, order_detail where order_detail.od_o_id = Orders.ord_id AND Orders.ord_c_id = C
ustomer.c_id AND (select count(order_detail.od_quantity) from order_detail where od_o_id = ord_id)
> 1 Group by Orders.ord_id, Orders.ord_date, Customer.c_last;
1  |  2012-05-29  |  Tulu  |  2
3  |  2012-05-31  |  Elmes  |  2
5  |  2012-06-01  |  Eleanor  |  2
6  |  2012-06-01  |  Wilkinson  |  2
```

10. For each shipment, list the shipment id, the date it is expected, and the total value of that shipment (The total value equals the sum total of each shipment line. The value of the each order line equals inventory price* shipment line quantity).

```
[sqlite> select shipment.ship_id, shipment.ship_date_expected, sum(Inventory.inv_item_price * shipme
nt_line.sl_quantity) from shipment, Inventory, shipment_line where Inventory.inv_id = shipment_line
.inv_id AND shipment_line.ship_id = shipment.ship_id Group by shipment.ship_id, shipment.ship_date_
expected;
1  |  2006-09-15  |  12999.5
2  |  2006-11-15  |  6499.75
3  |  2006-06-25  |  17970.0
4  |  2006-06-25  |  11990.0
5  |  2006-08-15  |  50987.5
```