**Brandon Fowler**

**CSCD 327**

**Lab # 5**

**1.** select Title, Retail

from BOOKS

where Retail < (select avg(Retail) from BOOKS);

Title Retail

HOW TO GET FASTER PIZZA 29.95

THE WOK WAY TO COOK 28.75

REVENGE OF MICKEY 22.00

BODYBUILD IN 10 MINUTES A DAY 30.95

HANDCRANKED COMPUTERS 25.00

SHORTEST POEMS 39.95

COOKING WITH MUSHROOMS 19.95

BIG BEAR AND LITTLE DOVE 8.95

HOW TO MANAGE THE MANAGER 31.95

**2.** select Title, t1.Category, Cost

from BOOKS as t1, (select Category, avg(Cost) as Avg from BOOKS group by Category) as t2

where t1.Category = t2.Category and t1.Cost < t2.Avg;

Title Category Cost

REVENGE OF MICKEY FAMILY LIFE 14.20

HANDCRANKED COMPUTERS COMPUTER 21.80

COOKING WITH MUSHROOMS COOKING 12.50

BIG BEAR AND LITTLE DOVE CHILDREN 5.32

DATABASE IMPLEMENTATION COMPUTER 31.40

**Brandon Fowler**

**3.** select Order\_num, ShipState

from ORDERS

where ShipState = (select ShipState from ORDERS where Order\_num = 1014);

Order\_num ShipState

1007 TX

1014 TX

**4.** select Order\_num, sum(Quantity\*PaidEach) as Total

from ORDERITEMS

group by Order\_num

having Total > (select sum(Quantity\*PaidEach) from ORDERITEMS where ORDER\_num = 1002);

Order\_num Total

1001 117.40

1004 170.90

1007 335.85

1012 166.40

**5.** select distinct Title, t1.Category

from BOOKS as t1, (select Category from ORDERS natural join ORDERITEMS natural join BOOKS where Customer\_num = 1007) as t2

where t1. Category = t2.Category and t1.Title not in (select Title from ORDERS natural join ORDERITEMS natural join BOOKS where Customer\_num = 1007);

Title Category

HANDCRANKED COMPUTERS COMPUTER

PAINLESS CHILD-REARING FAMILY LIFE

BUILDING A CAR WITH TOOTHPICKS CHILDREN

**Brandon Fowler**

**6.** select ShipCity, ShipState, datediff(ShipDate, OrderDate) as ShipDelay

from ORDERS

where datediff(ShipDate, OrderDate) = (select max(datediff(ShipDate, OrderDate)) from ORDERS);

ShipCity ShipState ShipDelay

TRENTON NJ 4

**7.** select Customer\_num, Title, PaidEach as Price

from ORDERS natural join ORDERITEMS natural join BOOKS

where PaidEach = (select min(Retail) from BOOKS);

Customer\_num Title Price

1007 BIG BEAR AND LITTLE DOVE 8.95

1017 BIG BEAR AND LITTLE DOVE 8.95

1015 BIG BEAR AND LITTLE DOVE 8.95

**8.** select count(distinct Customer\_num) as CustomerOrders

from ORDERS natural join ORDERITEMS natural join BOOKS natural join BOOKAUTHOR natural join AUTHOR

where Lname = 'Austin' and Fname = 'James';

CustomerOrders

5

**9.** select ID, name, salary

from instructor

where salary = (select max(salary) from instructor);

ID name salary

22222 Einstein 95000.00

**Brandon Fowler**

**10.** select course\_id, sec\_id, semester, year, count(ID) as EnrolledStudents

from takes

group by course\_id, sec\_id

having semester = 'Spring' and year = 2010 and EnrolledStudents = (select max(cnt) from (select course\_id, sec\_id, semester, year, count(ID) as cnt from takes group by course\_id, sec\_id having semester = 'Spring' and year)as MaxTable)

course\_id sec\_id semester year EnrolledStudents

CS-315 1 Spring 2010 2

**11.** select dept\_name, salary

from instructor

where salary = (select min(sal)as salary from (select dept\_name, max(salary) as sal from instructor group by dept\_name)as MinTable);

dept\_name salary

Music 40000.00

**12.** select ID, name

from (select count(distinct course\_id) as cnt from section where year = 2009 and semester = 'Fall') as T1, (select ID, name, count(distinct course\_id) as cnt from takes natural join student group by ID, year, semester having year = 2009 and semester = 'Fall') as T2

where T1.cnt = T2.cnt;

ID name

12345 Shankar