Raymond Shiner

Lab5

Databases

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1.

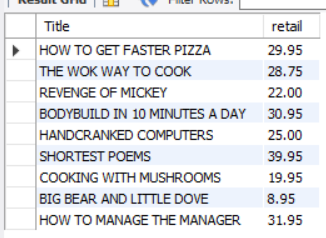
Select title, retail

From Books

Where retail <

(select avg(retail)

From Books);



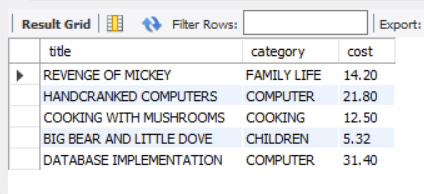
2.

select title, category, cost

from BOOKS a natural join

(select category, avg(cost) averageCost from BOOKS group by category) b

where cost < averageCost

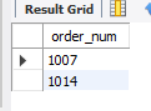


3.

select order\_num

from ORDERS a, (select shipstate from ORDERS where order\_num = 1014) b

where a.shipstate = b.shipstate;



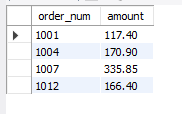
4.

select order\_num, sum(quantity \* paideach) as amount

from ORDERITEMS

group by order\_num

having amount > (select sum(quantity\*paideach) from ORDERITEMS where order\_num = 1002)



5.

select distinct book.title

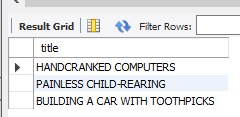
from BOOKS book,

(select category from BOOKS natural join ORDERITEMS natural join

(select order\_num from ORDERS where customer\_num = 1007)a group by category) b

where book.category = b.category and book.title not in (select title from BOOKS

natural join ORDERITEMS natural join (select order\_Num from ORDERS where customer\_num = 1007) c);



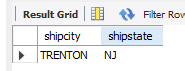
6.

select shipcity, shipstate

from ORDERS

where datediff(shipdate, orderdate) =

(select max(datediff(shipdate, orderdate)) from ORDERS)



7.

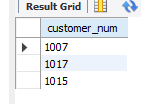
select customer\_num

from ORDERS

natural join ORDERITEMS

natural join (select ISBN from BOOKS

where retail = (select min(retail) from BOOKS)) a



8.

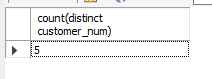
select count(distinct customer\_num)

from ORDERS natural join

ORDERITEMS natural join

BOOKS natural join (select ISBN from BOOKAUTHOR natural join AUTHOR

where Fname = 'James' and Lname = 'Austin') a



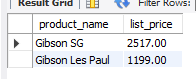
9.

select product\_name, list\_price

from products

where list\_price > (select avg(list\_price) from products)

order by list\_price desc



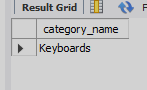
10.

select category\_name

from categories c

where NOT EXISTS

(select category\_name from products p where c.category\_id = p.category\_id)



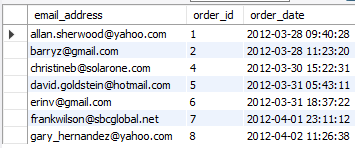
11.

select email\_address, order\_id, order\_date

from orders natural join customers c

where order\_date = (select min(order\_date)

from orders where c.customer\_id = orders.customer\_id);

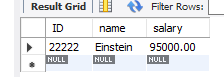


12.

select ID, name, salary

from instructor

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



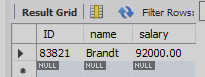
13.

select ID, name, salary

from instructor

where salary = (select max(salary) from instructor

where salary < (select max(salary) from instructor))



14.

select ID, name, numClasses

from instructor natural join

(select ID, count(distinct course\_id) as numClasses from teaches group by ID) sub

where numClasses >= all((select count(distinct course\_id) from teaches group by ID));

