Fundamentals of Data Structure and Algorithm

Assignment 7

SQL

**1. What publisher is located in GARDEN CITY?**

Answer: DOUBLEDAY AND COMPANY INC.

*SQL command*

select publisher

from pub

where pcity=’GARDEN CITY’

**2. How many books in the catalogue from publishers in NEW YORK?**

Answer: 39

*SQL command*

select count(loc)

from bib

where loc="NEW YORK"

**3. Find the average price of a book in the SOCAL CHANGE subject category.**

Answer: $8.625

*SQL command*

select subcode from sub where subcode = "SOCIAL CHANGE";

select accno from indx where subcode = 21;

select price from bib where accno in ("B010", "H054")

**4. How many books from San Francisco publishers are about the subject of UNIVERSITIES AND COLLEGES?**

Answer: 2

*SQL command*

select pub.pcity

from sub

inner join indx on indx.subcode = sub.subcode

inner join bib on bib.accno = indx.accno

inner join pub on pub.pubid =bib.pubid
where sub.subcode = 24

**5. Books in which subject category have the highest average price?**

Answer: COMMUNICATION - ECONOMIC ASPECTS ($35) and COMMUNICATION POLICY - US ($35)

*SQL command*

select avg(bib.price), sub.subject

from ((sub

inner join bib on bib.accno = indx.accno)

inner join indx on sub.subcode = indx.subcode)

group by subject

order by avg(bib.price) desc

**6. Among books costing 15 dollars or more, which publisher ranks highest in terms of average book HEIGHT?**

Answer: DIABLO PRESS (28 inch)

*SQL command*

select bib.height, pub.publisher, bib.price

from (pub
inner join bib on bib.pubid = pub.pubid)

where price >= 15

order by height desc