Andrew Hanson

Single Table

1. select book\_code, title from book
2. select \* from PUBLISHER
3. select \* FROM PUBLISHER WHERE CITY = 'Boston'
4. select \* FROM PUBLISHER WHERE CITY != 'Boston'
5. select \* FROM BRANCH WHERE NUM\_EMPLOYEES = 9
6. select BOOK\_CODE, TITLE FROM BOOK WHERE TYPE = 'SFI'
7. select BOOK\_CODE,TITLE FROM BOOK WHERE TYPE = 'SFI' AND PAPERBACK = 'Y'
8. select BOOK\_CODE, TITLE FROM BOOK WHERE TYPE = 'SFI' OR PUBLISHER\_CODE = 'SC'
9. select BOOK\_CODE, TITLE, PRICE FROM BOOK WHERE PRICE BETWEEN 20 AND 30
10. select BOOK\_CODE, TITLE FROM BOOK WHERE TYPE = 'MYS' AND PRICE < 20
11. select BOOK\_CODE, TITLE, PRICE \* 0.9 AS discounted\_price FROM BOOK
12. select PUBLISHER\_NAME FROM PUBLISHER WHERE PUBLISHER\_NAME LIKE '% and %'
13. select BOOK\_CODE, TITLE FROM BOOK WHERE TYPE IN ('SFI', 'MYS', 'ART')
14. select BOOK\_CODE, TITLE FROM BOOK WHERE TYPE IN ('SFI', 'MYS', 'ART') ORDER BY TITLE ASC
15. select BOOK\_CODE, TITLE FROM BOOK WHERE TYPE IN ('SFI', 'MYS', 'ART') ORDER BY PRICE DESC, TITLE ASC
16. select DISTINCT TYPE FROM BOOK
17. select COUNT(\*) FROM BOOK WHERE TYPE = 'SFI'
18. select TYPE, AVG(PRICE) FROM BOOK GROUP BY TYPE
19. select TYPE, AVG(PRICE) FROM BOOK WHERE PAPERBACK = 'Y' GROUP BY TYPE
20. select TYPE, AVG(PRICE) FROM BOOK WHERE PAPERBACK = 'Y' GROUP BY TYPE HAVING AVG(PRICE) > 10
21. select TITLE, PRICE FROM BOOK WHERE PRICE = (SELECT MAX(PRICE) FROM BOOK)
22. select TITLE, PRICE FROM BOOK WHERE PRICE = (SELECT MIN(PRICE) FROM BOOK)
23. select SUM(NUM\_EMPLOYEES) FROM BRANCH

Multiple Tables

1. select BOOK.BOOK\_CODE, BOOK.TITLE, BOOK.PUBLISHER\_CODE, PUBLISHER.PUBLISHER\_NAME FROM BOOK JOIN PUBLISHER ON BOOK.PUBLISHER\_CODE = PUBLISHER.PUBLISHER\_CODE ORDER BY PUBLISHER.PUBLISHER\_NAME
2. select BOOK.BOOK\_CODE, BOOK.TITLE, BOOK.PRICE FROM BOOK JOIN PUBLISHER ON BOOK.PUBLISHER\_CODE = PUBLISHER.PUBLISHER\_CODE WHERE PUBLISHER.PUBLISHER\_NAME = 'Plume'
3. SELECT BOOK.TITLE, BOOK.BOOK\_CODE, BOOK.PRICE FROM BOOK JOIN PUBLISHER ON BOOK.PUBLISHER\_CODE = PUBLISHER.PUBLISHER\_CODE WHERE PUBLISHER.PUBLISHER\_NAME = 'Plume' AND BOOK.PRICE >= 14
4. SELECT INVENTORY.BOOK\_CODE, BOOK.TITLE, INVENTORY.ON\_HAND FROM INVENTORY JOIN BOOK ON INVENTORY.BOOK\_CODE = BOOK.BOOK\_CODE WHERE INVENTORY.BRANCH\_NUM = 4
5. select BOOK.TITLE FROM BOOK JOIN PUBLISHER ON BOOK.PUBLISHER\_CODE = PUBLISHER.PUBLISHER\_CODE WHERE BOOK.TYPE = 'PSY' AND PUBLISHER.PUBLISHER\_NAME = 'Jove Publications'
6. select TITLE FROM BOOK WHERE BOOK\_CODE IN (SELECT BOOK\_CODE FROM WROTE WHERE AUTHOR\_NUM = 18)
7. select TITLE FROM BOOK WHERE EXISTS (SELECT 1 FROM WROTE WHERE WROTE.BOOK\_CODE = BOOK.BOOK\_CODE AND WROTE.AUTHOR\_NUM = 18)
8. select DISTINCT BOOK.BOOK\_CODE, BOOK.TITLE FROM BOOK JOIN INVENTORY ON BOOK.BOOK\_CODE = INVENTORY.BOOK\_CODE JOIN WROTE ON BOOK.BOOK\_CODE = WROTE.BOOK\_CODE WHERE INVENTORY.BRANCH\_NUM = 2 AND WROTE.AUTHOR\_NUM = 20
9. select BOOK1.BOOK\_CODE AS bookCode1, BOOK2.BOOK\_CODE AS bookCode2 FROM BOOK AS BOOK1 JOIN BOOK AS BOOK2 ON BOOK1.PRICE = BOOK2.PRICE AND BOOK1.BOOK\_CODE < BOOK2.BOOK\_CODE ORDER BY BOOK1.BOOK\_CODE, BOOK2.BOOK\_CODE
10. select BOOK.TITLE, AUTHOR.AUTHOR\_LAST, INVENTORY.ON\_HAND FROM BOOK JOIN WROTE ON BOOK.BOOK\_CODE = WROTE.BOOK\_CODE JOIN AUTHOR ON WROTE.AUTHOR\_NUM = AUTHOR.AUTHOR\_NUM JOIN INVENTORY ON BOOK.BOOK\_CODE = INVENTORY.BOOK\_CODE WHERE INVENTORY.BRANCH\_NUM = 4
11. select BOOK.TITLE, AUTHOR.AUTHOR\_LAST, INVENTORY.ON\_HAND FROM BOOK JOIN WROTE ON BOOK.BOOK\_CODE = WROTE.BOOK\_CODE JOIN AUTHOR ON WROTE.AUTHOR\_NUM = AUTHOR.AUTHOR\_NUM JOIN INVENTORY ON BOOK.BOOK\_CODE = INVENTORY.BOOK\_CODE WHERE INVENTORY.BRANCH\_NUM = 4 AND BOOK.PAPERBACK = 'Y'
12. select BOOK.BOOK\_CODE, BOOK.TITLE FROM BOOK JOIN PUBLISHER ON BOOK.PUBLISHER\_CODE = PUBLISHER.PUBLISHER\_CODE WHERE BOOK.PRICE > 10 AND PUBLISHER.CITY = 'Boston' UNION SELECT BOOK.BOOK\_CODE, BOOK.TITLE FROM BOOK JOIN PUBLISHER ON BOOK.PUBLISHER\_CODE = PUBLISHER.PUBLISHER\_CODE WHERE BOOK.PRICE > 10 AND PUBLISHER.CITY = 'Boston'
13. select BOOK.BOOK\_CODE, BOOK.TITLE FROM BOOK JOIN PUBLISHER ON BOOK.PUBLISHER\_CODE = PUBLISHER.PUBLISHER\_CODE WHERE BOOK.PRICE > 10 AND PUBLISHER.CITY != 'Boston' UNION SELECT BOOK.BOOK\_CODE, BOOK.TITLE FROM BOOK JOIN PUBLISHER ON BOOK.PUBLISHER\_CODE = PUBLISHER.PUBLISHER\_CODE WHERE BOOK.PRICE > 10 AND PUBLISHER.CITY != 'Boston'
14. select BOOK.BOOK\_CODE, BOOK.TITLE FROM BOOK WHERE BOOK.PRICE > ALL (SELECT BOOK.PRICE FROM BOOK WHERE BOOK.TYPE = 'HOR')
15. SELECT BOOK\_CODE, TITLE FROM BOOK WHERE PRICE > ANY (SELECT PRICE FROM BOOK WHERE TYPE = 'HOR')
16. SELECT BOOK.BOOK\_CODE, BOOK.TITLE, INVENTORY.ON\_HAND FROM BOOK LEFT JOIN INVENTORY ON BOOK.BOOK\_CODE = INVENTORY.BOOK\_CODE AND INVENTORY.BRANCH\_NUM = 2 ORDER BY BOOK.BOOK\_CODE;