# Sub Query Revision

1. Write a statement with a subquery to find the names of authors who live in the city where Algodata Infosystems is located.

SELECT au\_fname"Authors First Name", au\_lname"Author’s Last name"

from Authors

Where city = (SELECT city FROM publishers WHERE pub\_name = 'Algodata Infosystems');

1. Find the names of books that are priced higher than the current minimum price

SELECT title"Titles", price"Price"

FROM titles

WHERE price > (SELECT min(price) from titles);

1. Finds the books that are priced higher than the lowest priced book in the *trad\_cook* category:

SELECT title"Titles",price"Price"

FROM titles

WHERE price > (SELECT min(price) from titles WHERE type1 = 'trad\_cook');

1. Which books command an advance greater than the largest advance paid by New Age Books?"

SELECT title"Titles"

FROM titles

WHERE advance > (SELECT max(advance) FROm titles t, publishers p WHERE t.pub\_id = p.pub\_id AND pub\_name = 'New Age Books');

1. Find the books that are priced higher than the highest-priced book in the *mod\_cook* category:

SELECT title"Titles",price"Price"

FROM titles

WHERE price > (SELECT max(price) from titles WHERE type1 = 'mod\_cook');

1. Find the names of all second authors who live in California and receive less than 30 percent of the royalties on a book.

SELECT au\_fname,au\_lname

FROM authors

WHERE state = 'CA' and au\_id IN (SELECT au\_id FROM titleauthor WHERE au\_ord = 2 AND title\_id IN (SELECT title\_id from roysched WHERE royalty < 30));

1. Using a join and not using a subquery, list the publishers who publish psychology books.

SELECT p.pub\_name"Publisher Name", t.type1

FROM titles t, publishers p

WHERE p.pub\_id = t.pub\_id AND type1 = 'psychology';

1. Re-write the answer to Q7 above using a subquery. Note any differences in the resultset returned.

SELECT pub\_id"Publisher ID"

FROM publishers

WHERE pub\_id in (SELECT pub\_id from titles WHERE type1 = 'psychology');

1. Without using a subquery, list all first authors who have sold more than 1000 books.

SELECT aa.au\_fname"Author First name",aa.au\_lname"Author Last name"

FROM authors aa, titleauthor ta, titles t

WHERE aa.au\_id = ta.au\_id AND ta.title\_id = t.title\_id AND t.total\_sales > 1000;

1. Try and write the answer to Q9 above using a subquery?

SELECT au\_id"Authors ID"

FROM titleauthor

WHERE title\_id in (SELECT title\_id FROM titles WHERE total\_sales > 1000);

1. Without using a subquery, list the authors whose books are selling for $12.00?

SELECT aa.au\_fname"Author First name",aa.au\_lname"Author Last name", t.price"Price"

FROM authors aa, titleauthor ta, titles t

WHERE aa.au\_id = ta.au\_id AND ta.title\_id = t.title\_id AND t.price = 12;

1. Try and rewrite the answer to Q11 above using a subquery?

SELECT au\_id"Author ID"

FROM titleauthor

WHERE title\_ID in (SELECT title\_ID from titles where price = 12);

1. List the titles that have a quantity ordered which is greater than the maximum ordered by Bookbeat.

SELECT t.title”Titles”

FROM titles t, salesdetails sa

WHERE t.title\_id = sa.title\_id AND pub\_ID =IN(SELECT pub\_id FROM publishers WHERE pub\_name = ‘Bookbeat’);

1. Find the types of books that are published by more than one publisher.

SELECT \*\*\*\*\*\*