

Comp 1630

Relational Database Design & UML

EXERCISE 7 - SQL

1. List the title ID, title, type, and price from the TITLES table where the notes column does not contain NULL values. Order the result set by title ID. The query should produce the result set listed below.

title_id	title	type	price
BU1032	The Busy Executive's Database Guide	business	19.99
BU1111	Cooking with Computers: Surreptitious Balance Sheets	business	11.95
BU2075	You Can Combat Computer Stress!	business	2.99
BU7832	Straight Talk About Computers	business	19.99
MC2222	Silicon Valley Gastronomic Treats	mod_cook	19.99
...			
TC3218	Onions, Leeks, and Garlic: Cooking Secrets of the Mediterranean	trad_cook	20.95
TC4203	Fifty Years in Buckingham Palace Kitchens	trad_cook	11.95
TC7777	Sushi, Anyone?	trad_cook	14.99

(17 row(s) affected)

2. List the DISTINCT store IDs from the SALES table whose order date is **September 14, 1994**. The query should produce the result set listed below.

```
stor_id
-----
6380
7067
7131
8042
```

(4 row(s) affected)

3. List the name, phone number and states from the AUTHORS table. Format the name of the author as the first name followed by a space followed by the last name. Format the phone number as a left bracket followed by the area code followed by a right bracket followed by the phone number. Order the result set by the newly formatted name. The query should produce the result set listed below.

Name	Phone	State
-----	-----	-----
Abraham Bennet	(415) 658-9932	CA
Akiko Yokomoto	(415) 935-4228	CA
Albert Ringer	(801) 826-0752	UT
Ann Dull	(415) 836-7128	CA
Anne Ringer	(801) 826-0752	UT
...		
Sheryl Hunter	(415) 836-7128	CA
Stearns MacFeather	(415) 354-7128	CA
Sylvia Panteley	(301) 946-8853	MD

(23 row(s) affected)

4. List the title id, title, advance, year to date sales, and publishing date from the TITLES table where the advance is greater than or equal to **\$3000**, and the publishing date is equal to **June 9, 1991 or June 12, 1991**. Display only the **first 30** characters of the title. Display the publisher date in the format of **DD-MM-YYYY**. Order the result set by the title. The query should produce the result set listed below.

TitleID	Title	Advance	YTDSales	PubDate
BU1111	Cooking with Computers: Surrep	5000.00	3876	09-06-1991
PS7777	Emotional Security: A New Algo	4000.00	3336	12-06-1991
TC4203	Fifty Years in Buckingham Pala	4000.00	15096	12-06-1991
TC7777	Sushi, Anyone?	8000.00	4095	12-06-1991
BU1032	The Busy Executive's Database	5000.00	4095	12-06-1991

(5 row(s) affected)

5. Find the **AVG** year-to-date sales, **MIN** year-to-date sales, and **MAX** year-to-date sales from the TITLES table. Rename the columns with an appropriate column heading. The query should produce the result set listed below.

AvgYTDSales	MinYTDSales	MaxYTDSales
6090	111	22246

(1 row(s) affected)

6. List the authors from the AUTHORS table with a city of **Oakland, San Francisco, or Berkeley**, and a zip code of **94609, 94130, or 94705**. Order the result set by name. The query should produce the result set listed below.

AuthorID	Name	Phone	City	Zip
409-56-7008	Abraham Bennet	415 658-9932	Berkeley	94705
486-29-1786	Charlene Locksley	415 585-4620	San Francisco	94130
238-95-7766	Cheryl Carson	415 548-7723	Berkeley	94705
274-80-9391	Dean Straight	415 834-2919	Oakland	94609
724-08-9931	Dirk Stringer	415 843-2991	Oakland	94609
756-30-7391	Livia Karsen	415 534-9219	Oakland	94609

(6 row(s) affected)

7. List the information from the ROYSCHED table where the royalty is greater than or equal to **15** and less than or equal to **20**. Order the result set by the title id. The query should produce the result set listed below.

title_id	lorange	hirange	royalty
BU1111	12001	16000	16
BU1111	16001	20000	18
BU1111	20001	24000	20
BU2075	5001	7000	16
...			
TC4203	16001	24000	16
TC4203	24001	32000	18
TC4203	32001	40000	20

(29 row(s) affected)

8. List the employee id, first name, last name, job id, and hire date from the EMPLOYEE table for employees with a last name beginning with the letter **A** or **S**, and a hire date greater than or equal to **January 1, 1990**. Display the hire date in the format of **MON DD YYYY**. Order the result set by the last name of the employee. The query should produce the result set listed below.

EmpID	FirstName	LastName	JobID	HireDate
PMA42628M	Paolo	Accorti	13	Aug 27 1992
PSA89086M	Pedro	Afonso	14	Dec 24 1990
VPA30890F	Victoria	Ashworth	6	Sep 13 1990
MMS49649F	Mary	Saveley	8	Jun 29 1993
CGS88322F	Carine	Schmitt	13	Jul 7 1992
MFS52347M	Martin	Sommer	10	Apr 13 1990

(6 row(s) affected)

9. List the store id, order number, order date, and a new order date calculated by adding **10** days to the original order date from the SALES table where the quantity is less than or equal to **15**. Display the order date and new order date in the format of **YYYY.MM.DD**.

StoreID	OrderNumber	OrderDate	NewOrderDate
6380	6871	1994.09.14	1994.09.24
6380	722a	1994.09.13	1994.09.23
7067	D4482	1994.09.14	1994.09.24
7131	P3087a	1993.05.29	1993.06.08
7896	QQ2299	1993.10.28	1993.11.07
7896	TQ456	1993.12.12	1993.12.22
8042	423LL922	1994.09.14	1994.09.24
8042	423LL930	1994.09.14	1994.09.24

(8 row(s) affected)

10. List the employee id, first name, last name, the year of the hire date, and the number of years the employee has worked up to **January 1, 2008** from the EMPLOYEE table. Format the name as last name followed by a comma and space followed by the first name. The query should produce the result set listed below.

EmpId	Name	HireDate	Years
PMA42628M	Accorti, Paolo	1992	16
PSA89086M	Afonso, Pedro	1990	18
VPA30890F	Ashworth, Victoria	1990	18
H-B39728F	Bennett, Helen	1989	19
L-B31947F	Brown, Lesley	1991	17
...			
MFS52347M	Sommer, Martin	1990	18
GHT50241M	Thomas, Gary	1988	20
DBT39435M	Tonini, Daniel	1990	18

(43 row(s) affected)