

Haines Books1 Tables:

h\_authors \* h\_books \* h\_branches \* h\_book\_authors \* h\_inventory \* h\_publishers

Notes:

- Create a file called S09.sql and submit to dropbox S09
- Tables are prefixed with h\_
- Tables are stored in schema **LCPUBLIC**

1. List the name of each publisher located in Boston. Sort by publisher name.	
PUBLISHER_NAME	
-----	
Berkley Publishing	
Course Technology	

2. List the book code and book title of each book that has the type HOR and is in paperback. Sort by book code;	
BOOK_CODE	TITLE
-----	-----
0189	Magic Terror

3. List the book code and book title of each book that has the type HOR or is published by the publisher with the publisher code SC. Sort by book code.	
BOOK_CODE	TITLE
-----	-----
0189	Magic Terror
1351	Dreamcatcher: A Novel
5790	Catch-22
9611	Black House

4. Display the list of book types. List each book type only once. Sort ascending sequence by book type.	
TYPE	
----	
ART	
CMP	
FIC	
HIS	
HOR	
MYS	
PHI	
POE	
PSY	
SCI	
SFI	
TRA	

5. List the name of each publisher **not** located in New York. Sort by publisher name.

PUBLISHER_NAME	
-----	
Arkham House	
Basic Books	
Berkley Publishing	
Course Technology	
Jeremy P. Tarcher	
McPherson and Co.	
Taunton Press	
Touchstone Books	
Westview Press	

6. List the name of each branch that has at least ten employees. Sort by branch name.

BRANCH_NAME	
-----	
Eastside books	
Westside Mall books	

7. List the author id, first name, and last name for all authors. The first name should appear in lowercase letters and the last name should appear in uppercase letters. Use aliases as shown and sort by last name.

AUTHOR_ID	FIRST_NAME	LAST_NAME	
-----	-----	-----	
14	stephen e.	AMBROSE	
18	albert	CAMUS	
21	riva	CASTELMAN	
8	truddi	CHASE	
9	bradley	COLLINS	
19	bradley	COLLINS, JR.	
4	dick	FRANCIS	
17	seamus	HEANEY	
10	joseph	HELLER	
. . .			

8. List authors that have a last name starting with "C." Return names as shown below. Sort author first name within author last name.

AUTHOR_NAME	
-----	
A CAMUS	
R CASTELMAN	
T CHASE	
B COLLINS	
B COLLINS, JR.	

9. List the titles of all books that contain the characters "the" regardless of case. The characters could be "the," "THE," ThE, and so on. Sort by title.

TITLE
-----
A Deepness in the Sky
Band of Brothers
Harry Potter and the Goblet of Fire
Harry Potter and the Prisoner of Azkaban
The Catcher in the Rye
The Edge
The Fall
The Grapes of Wrath
The Soul of a New Machine
The Stranger

10. List the book code, title, old price (price), and new price (price rounded up/down to the nearest dollar). Return only those books that have a new price of 7.00. Sort by book code.

BOOK_CODE	TITLE	OLD_PRICE	NEW_PRICE
-----	-----	-----	-----
0180	A Deepness in the Sky	7.19	7.00
2766	Of Mice and Men	6.95	7.00
9882	Slay Ride	6.99	7.00

11. List the book code, title, old price (price), and new price (old price *increased* to the nearest dollar). Return only those books that have a new price of 25.00 or greater. Sort by book code.

BOOK_CODE	TITLE	OLD_PRICE	NEW_PRICE
-----	-----	-----	-----
0378	Venice	24.50	25.00
079X	Second Wind	24.95	25.00
0808	The Edge	24.45	25.00
1382	Treasure Chests	24.46	25.00
669X	A Guide to SQL	37.95	38.00

12. Display book title, regular price (current price of book), and sale price (regular price *decreased* down to the nearest dollar). Only list those books that have a sale price greater than 17.00. Sort by price in descending sequence.

TITLE	REGULAR_PRICE	SALE_PRICE
-----	-----	-----
A Guide to SQL	37.95	37.00
Second Wind	24.95	24.00
Venice	24.50	24.00
Treasure Chests	24.46	24.00
The Edge	24.45	24.00
Van Gogh and Gauguin	21.00	21.00
Dreamcatcher: A Novel	19.60	19.00
Black House	18.81	18.00
Harry Potter and the Goblet of Fire	18.16	18.00
To Kill a Mockingbird	18.00	18.00

13. List the book code, book title, and price of each book with a price between \$21 and \$25 inclusive. Sort by price in descending order.

BOOK_CODE	TITLE	PRICE
-----	-----	-----
079X	Second Wind	24.95
0378	Venice	24.50
1382	Treasure Chests	24.46
0808	The Edge	24.45
2281	Van Gogh and Gauguin	21.00

14. List the book code, book title, and price of each book that has the type FIC and a price greater than 12.00. Sort by price in descending order.

BOOK_CODE	TITLE	PRICE
-----	-----	-----
9931	To Kill a Mockingbird	18.00
9627	Song of Solomon	14.00
9701	The Grapes of Wrath	13.00
138X	Beloved	12.95
6128	Jazz	12.95
7405	East of Eden	12.95

15. Customers who are part of a special program get a 10 percent discount off regular book prices. List the book code, book title, original price, and discounted price for all books that have a discounted price greater than 22.00. The discount is calculated as ten percent of the original price rounded. For example, if the original price is 24.65, the discount is 2.47 and the discounted price is 22.18. Use DISCOUNTED\_PRICE as the name for the computed column. Sort by discounted price.

BOOK_CODE	TITLE	ORIGINAL_PRICE	DISCOUNT	DISCOUNTED_PRICE
-----	-----	-----	-----	-----
1382	Treasure Chests	24.46	2.45	22.01
0378	Venice	24.50	2.45	22.05
079X	Second Wind	24.95	2.50	22.45
669X	A Guide to SQL	37.95	3.80	34.15

16. Find the name of each publisher containing the word "and". (Hint: Be sure that your query selects only those publishers that contain the word "and" and not those that contain the letters "and" in the middle of a word. For example, your query should select the publisher named "Farrar Straus and Giroux," but should not select the publisher named "Random House.")

PUBLISHER_NAME
-----
Farrar Straus and Giroux
McPherson and Co.
Simon and Schuster
Thames and Hudson

17. List the book type, price, and title of each book that has the type FIC, PHI, or POE. List the books by type, price in descending order, and title.

TYPE	PRICE	TITLE
----	-----	-----
FIC	18.00	To Kill a Mockingbird
FIC	14.00	Song of Solomon
FIC	13.00	The Grapes of Wrath
FIC	12.95	Beloved
FIC	12.95	East of Eden
FIC	12.95	Jazz
FIC	12.00	Catch-22
FIC	8.00	The Fall
FIC	8.00	The Stranger
FIC	6.95	Of Mice and Men
FIC	5.99	Franny and Zooey
FIC	5.99	Nine Stories
FIC	5.99	The Catcher in the Rye
PHI	14.00	Godel, Escher, Bach
POE	14.00	Electric Light

18. The book store is going to run a 20% off sale of all paperbacks between 8.00 and 12.00 and hardcover books between 18.00 and 21.00. Generate the report below that will identify books on sale.

Book Title	Price	Cover
-----	-----	-----
Van Gogh and Gauguin	21.00	Hardcover
Dreamcatcher: A Novel	19.60	Hardcover
Black House	18.81	Hardcover
Harry Potter and the Goblet of Fire	18.16	Hardcover
To Kill a Mockingbird	18.00	Hardcover
Catch-22	12.00	Paperback
The Soul of a New Machine	11.16	Paperback
Group: Six People in Search of a Life	10.40	Paperback
Band of Brothers	9.60	Paperback
The Stranger	8.00	Paperback
The Fall	8.00	Paperback

19. The company is starting a marketing campaign March 1, 2018 and they want a list of all books published in the last 20 months from the campaign date. Display title and published date and sort by title as shown below.

TITLE	PUB_DATE
-----	-----
A Deepness in the Sky	Saturday, June, 17, 2017
Band of Brothers	Tuesday, August, 23, 2016
Beloved	Saturday, May, 20, 2017
Catch-22	Saturday, May, 13, 2017
East of Eden	Saturday, August, 26, 2017
Electric Light	Friday, October, 06, 2017
Harry Potter and the Prisoner of Azkaban	Saturday, March, 11, 2017
The Soul of a New Machine	Thursday, September, 29, 2016
The Stranger	Wednesday, January, 17, 2018
Travels with Charley	Sunday, July, 24, 2016
Van Gogh and Gauguin	Thursday, October, 20, 2016

20. Produce a list of books that were published since January 1, 2016. List title and published date. Sort title within published date.

PUBLISHED_DATE	TITLE
-----	-----
2016-01-30	Venice
2016-06-08	Treasure Chests
2016-07-24	Travels with Charley
2016-08-23	Band of Brothers
2016-09-29	The Soul of a New Machine
2016-10-20	Van Gogh and Gauguin
2017-03-11	Harry Potter and the Prisoner of Azkaban
2017-05-13	Catch-22
2017-05-20	Beloved
2017-06-17	A Deepness in the Sky
2017-08-26	East of Eden
2017-10-06	Electric Light
2018-01-17	The Stranger

21. List the year of publication and title for all books. Sort book title within publication year.

PUB_YEAR	TITLE
-----	-----
2001	Magic Terror
2001	The Edge
2002	Franny and Zooey
2004	Godel, Escher, Bach
2004	When Rabbit Howls
2005	A Guide to SQL
2006	Song of Solomon
2008	Black House
2008	Slay Ride
2008	The Fall
2010	To Kill a Mockingbird
2012	The Catcher in the Rye
2012	The Grapes of Wrath
2014	Jazz
2015	Dreamcatcher: A Novel
. . .	

22. Return title and months published. Months published is the number of months rounded from the published date to the current date. Sort by title

TITLE	MONTHS_PUBLISHED
-----	-----
A Deepness in the Sky	41
A Guide to SQL	190
Band of Brothers	51
Beloved	42
Black House	147
Catch-22	42
Dreamcatcher: A Novel	69
East of Eden	39
Electric Light	37
Franny and Zooey	223
Godel, Escher, Bach	196
Group: Six People in Search of a Life	63
Harry Potter and the Goblet of Fire	67
Harry Potter and the Prisoner of Azkaban	44
Jazz	77
...	

23. Return lowest, highest, and average price from the H\_PRICE table. Also return the total of all prices. All prices are rounded to two decimals.

Lowest	Highest	Average	Total price
-----	-----	-----	-----
5.99	37.95	13.94	460.18

24. Return title and published date from the H\_PRICE table. Use host/bind variables to prompt for the start and end published dates. Sort by published date.

Bind parameter(s)		
#	Name	Value
1	Enter_start_date	'2015-02-01'
2	Enter_end_date	'2016-07-15'

TITLE	PUBLISHED_DATE
-----	-----
Dreamcatcher: A Novel	2015-02-12
Harry Potter and the Goblet of Fire	2015-04-14
Nine Stories	2015-07-21
Group: Six People in Search of a Life	2015-08-12
Second Wind	2015-09-16
Venice	2016-01-30
Treasure Chests	2016-06-08

25. Using the H\_BOOKS table, return publisher code, book code, title, old price (original price in table), and new price (old price increased to the highest dollar. Only include publishers 'BP', 'JP', and 'TB.' Sort by new price.

PUBLISHER_CODE	BOOK_CODE	TITLE	OLD_PRICE	NEW_PRICE
-----	-----	-----	-----	-----
JP	8720	When Rabbit Howls	6.29	7.00
JP	9882	Slay Ride	6.99	7.00
TB	0180	A Deepness in the Sky	7.19	8.00
BP	3350	Group: Six People in Search of a Life	10.40	11.00
JP	0808	The Edge	24.45	25.00

26. Using the H\_BOOKS table, return publisher code, book code, title, old price (original price in table), and new price (old price decreased to the lowest dollar. Only include publishers 'BP', 'JP', and 'TB.' Sort by new price.

PUBLISHER_CODE	BOOK_CODE	TITLE	OLD_PRICE	NEW_PRICE
-----	-----	-----	-----	-----
JP	8720	When Rabbit Howls	6.29	6.00
JP	9882	Slay Ride	6.99	6.00
TB	0180	A Deepness in the Sky	7.19	7.00
BP	3350	Group: Six People in Search of a Life	10.40	10.00
JP	0808	The Edge	24.45	24.00

27. Using the H\_BOOKS table, return the count and average price for each type within publisher code. Use WHERE and GROUP BY clauses. Only return averages for publishers LB, PE, PL, JP, and SC. Sort type within publisher code.

PUBLISHER_CODE	TYPE	COUNT	AVERAGE_PRICE
-----	----	-----	-----
JP	MYS	2	15.72
JP	PSY	1	6.29
LB	FIC	3	5.99
PE	FIC	3	10.97
PE	TRA	1	7.95
PL	FIC	3	13.30
SC	FIC	1	12.00
SC	HOR	1	19.60

28. Using the H\_BOOKS table, return the count and average price for each type within publisher code. Use WHERE and GROUP BY clauses. Only return averages >= 12.00 for publishers LB, PE, PL, JP, and SC. Sort type within publisher code.

PUBLISHER_CODE	TYPE	COUNT	AVERAGE_PRICE
-----	----	-----	-----
JP	MYS	2	15.72
PL	FIC	3	13.30
SC	FIC	1	12.00
SC	HOR	1	19.60

29. Using the H\_BOOKS table, generate the report. Years published is calculated from 2021-01-01. Only return books published >= 15.0 years. Sort by years published.

TITLE	PRICE	PUBLISHED_DATE	Years published
-----	-----	-----	-----
A Guide to SQL	37.95	2005-02-03	15.90
Godel, Escher, Bach	14.00	2004-07-19	16.45
When Rabbit Howls	6.29	2004-03-17	16.79
Franny and Zooey	5.99	2002-04-16	18.71
Magic Terror	7.99	2001-07-29	19.42
The Edge	24.45	2001-02-20	19.86



30. Using the H\_BOOKS table, generate the report. The published date only includes month and year. Sort title within published date.

Bind parameter(s)

#	Name	Value
1	Enter_start_date	'2017-01-01'
2	Enter_end_date	'2018-06-30'

Book title	Book price	Published date
-----	-----	-----
Harry Potter and the Prisoner of Azkaban	13.96	March 2017
Catch-22	12.00	May 2017
Beloved	12.95	May 2017
A Deepness in the Sky	7.19	June 2017
East of Eden	12.95	August 2017
Electric Light	14.00	October 2017
The Stranger	8.00	January 2018