

ITSE 2309 – Database Programming: Oracle

Lab 8 – Single Row Functions

To perform the following assignments, refer to the tables in the JustLee Books database.

1. Produce a list of all customer names in which the first letter of the first and last names is in uppercase and the rest are in lowercase.

```
INITCAP (FI INITCAP (LA
-----
Bonita      Morales
Ryan        Thompson
Leila       Smith
Thomas      Pierson
Cindy       Girard
Meshia      Cruz
Tammy       Giana
Kenneth     Jones
Jorge       Perez
Jake        Lucas
Reese       McGovern
William     McKenzie
Nicholas    Nguyen
Jasmine     Lee
Steve       Schell
Michell     Daum
Becca       Nelson
Greg        Montiasa
Jennifer    Smith
Kenneth     Falah

20 rows selected.
```

2. Create a list of all customer numbers along with text indicating whether the customer has been referred by another customer. Display the text “NOT REFERRED” if the customer wasn’t referred to JustLee Books by another customer or “REFERRED” if the customer was referred.

```
FIRSTNAME  LASTNAME  NVL2 (REFERRE
-----
BONITA     MORALES   NOT REFERRED
RYAN       THOMPSON  NOT REFERRED
LEILA      SMITH     NOT REFERRED
THOMAS     PIERSON   NOT REFERRED
CINDY      GIRARD    NOT REFERRED
```

MESHIA	CRUZ	NOT REFERRED
TAMMY	GIANA	REFERRED
KENNETH	JONES	NOT REFERRED
JORGE	PEREZ	REFERRED
JAKE	LUCAS	NOT REFERRED
REESE	MCGOVERN	NOT REFERRED
WILLIAM	MCKENZIE	NOT REFERRED
NICHOLAS	NGUYEN	REFERRED
JASMINE	LEE	NOT REFERRED
STEVE	SCHELL	NOT REFERRED
MICHELL	DAUM	REFERRED
BECCA	NELSON	NOT REFERRED
GREG	MONTIASA	NOT REFERRED
JENNIFER	SMITH	REFERRED
KENNETH	FALAH	NOT REFERRED

20 rows selected.

- Determine the amount of total profit generated by the book purchased on order 1002. Display the book title and profit. The profit should be formatted to display a dollar sign and two decimal places. Take into account that the customer might not pay the full retail price, and each item ordered can involve multiple copies.

TITLE	TO_CHAR (
-----	-----
DATABASE IMPLEMENTATION	\$49.10

- Display a list of all book titles and the percentage of markup for each book. The percentage of markup should be displayed as a whole number (that is, multiplied by 100) with no decimal position, followed by a percent sign (for example, .2793 = 28%). (The percentage of markup should reflect the difference between the retail and cost amounts as a percent of the cost.)

TITLE	RETAIL-COST)
-----	-----
BODYBUILD IN 10 MINUTES A DAY	65%
REVENGE OF MICKEY	55%
BUILDING A CAR WITH TOOTHPICKS	59%
DATABASE IMPLEMENTATION	78%
COOKING WITH MUSHROOMS	60%
HOLY GRAIL OF ORACLE	61%
HANDCRANKED COMPUTERS	15%
E-BUSINESS THE EASY WAY	44%
PAINLESS CHILD-REARING	87%
THE WOK WAY TO COOK	51%

BIG BEAR AND LITTLE DOVE	68%
HOW TO GET FASTER PIZZA	68%
HOW TO MANAGE THE MANAGER	107%
SHORTEST POEMS	83%

14 rows selected.

5. Display the current day of the week, hour, minutes, and seconds of the current date setting on the computer you're using.

```
CURRENT_DATE
-----
WEDNESDAY, 08:04:59
```

6. Create a list of all book titles and costs. Precede each book's cost with asterisks so that the width of the displayed Cost field is 12.

TITLE	COST
-----	-----
BODYBUILD IN 10 MINUTES A DAY	*****18.75
REVENGE OF MICKEY	*****14.2
BUILDING A CAR WITH TOOTHPICKS	*****37.8
DATABASE IMPLEMENTATION	*****31.4
COOKING WITH MUSHROOMS	*****12.5
HOLY GRAIL OF ORACLE	*****47.25
HANDCRANKED COMPUTERS	*****21.8
E-BUSINESS THE EASY WAY	*****37.9
PAINLESS CHILD-REARING	*****48
THE WOK WAY TO COOK	*****19
BIG BEAR AND LITTLE DOVE	*****5.32
HOW TO GET FASTER PIZZA	*****17.85
HOW TO MANAGE THE MANAGER	*****15.4
SHORTEST POEMS	*****21.85

14 rows selected.

7. Determine the length of data stored in the ISBN field of the BOOKS table. Make sure each different length value is displayed only once (not once for each book).

```
ISBN
-----
10
```

8. Using today's date, determine the age (in months) of each book that JustLee sells. Make sure only whole months are displayed; ignore any portions of months. Display the book title, publication date, current date, and age.

TITLE	PUBDATE	SYSDATE	AGE
-----	-----	-----	-----
BODYBUILD IN 10 MINUTES A DAY	21-JAN-05	23-OCT-19	177
REVENGE OF MICKEY	14-DEC-05	23-OCT-19	166
BUILDING A CAR WITH TOOTHPICKS	18-MAR-06	23-OCT-19	163
DATABASE IMPLEMENTATION	04-JUN-03	23-OCT-19	196
COOKING WITH MUSHROOMS	28-FEB-04	23-OCT-19	187
HOLY GRAIL OF ORACLE	31-DEC-05	23-OCT-19	165
HANDCRANKED COMPUTERS	21-JAN-05	23-OCT-19	177
E-BUSINESS THE EASY WAY	01-MAR-06	23-OCT-19	163
PAINLESS CHILD-REARING	17-JUL-04	23-OCT-19	183
THE WOK WAY TO COOK	11-SEP-04	23-OCT-19	181
BIG BEAR AND LITTLE DOVE	08-NOV-05	23-OCT-19	167
HOW TO GET FASTER PIZZA	11-NOV-06	23-OCT-19	155
HOW TO MANAGE THE MANAGER	09-MAY-03	23-OCT-19	197
SHORTEST POEMS	01-MAY-05	23-OCT-19	173

14 rows selected.

9. Determine the calendar date of the next occurrence of Wednesday, based on today's date.

Depends on when you executed the query

10. Produce a list of each customer number and the third and fourth digits of his or her zip code. The query should also display the position of the first occurrence of a 3 in the customer number, if it exists.

CUSTOMER#	ZIP	CUSTOMER#
-----	-----	-----
1001	32	0
1002	40	0
1003	30	4
1004	70	0
1005	11	0
1006	21	0
1007	71	0
1008	00	0
1009	51	0
1010	31	0
1011	60	0

1012	11	0
1013	71	4
1014	41	0
1015	11	0
1016	50	0
1017	00	0
1018	20	0
1019	96	0
1020	60	0

20 rows selected.

Upload only the **SQL Statements** to Blackboard.