ITC 5104 Database Design and SQL

Hands-On Assignment# 9

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.
SELECT INITCAP(Firstname), INITCAP(Lastname) FROM CUSTOMERS;

```
624  /* Name - Ankur Prajapati              Assignment - 9(1)              StudentID: N01324892*/
625  SELECT INITCAP(Firstname), INITCAP(Lastname) FROM CUSTOMERS;
```

Query Result | SQL | All Rows Fetched: 20 in 0.446 seconds

	INITCAP(FIRSTNAME)	INITCAP(LASTNAME)
1	Bonita	Morales
2	Ryan	Thompson
3	Leila	Smith
4	Thomas	Pierson
5	Cindy	Girard
6	Meshia	Cruz
7	Tammy	Giana
8	Kenneth	Jones
9	Jorge	Perez
10	Jake	Lucas
11	Reese	Mcgovern
12	William	Mckenzie
13	Nicholas	Nguyen

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.
SELECT firstname, lastname, NVL2(referred,'REFERRED', 'NOT REFERRED') as "Referred Status" FROM customers;

```
628
629  /* Name - Ankur Prajapati              Assignment - 9(2)              StudentID: N01324892*/
630  SELECT firstname, lastname, NVL2(referred,'REFERRED', 'NOT REFERRED') as "Referred Status" FROM customers;
631
```

Query Result | SQL | All Rows Fetched: 20 in 0.016 seconds

	FIRSTNAME	LASTNAME	Referred Status
1	BONITA	MORALES	NOT REFERRED
2	RYAN	THOMPSON	NOT REFERRED
3	LEILA	SMITH	NOT REFERRED
4	THOMAS	PIERSON	NOT REFERRED
5	CINDY	GIRARD	NOT REFERRED
6	MESHIA	CRUZ	NOT REFERRED
7	TAMMY	GIANA	REFERRED
8	KENNETH	JONES	NOT REFERRED
9	JORGE	PEREZ	REFERRED
10	JAKE	LUCAS	NOT REFERRED
11	REESE	MCGOVERN	NOT REFERRED
12	WILLIAM	MCKENZIE	NOT REFERRED
13	NICHOLAS	NGUYEN	REFERRED

3. 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.

SELECT title, TO_CHAR(quantity*(paideach-cost),'$999.99') AS "PROFIT" FROM books JOIN orderitems using(ISBN) WHERE order# = 1002;

```
631
632 /* Name - Ankur Prajapati            Assignment - 9(3)            StudentID: N01324892*/
633 SELECT title, TO_CHAR(quantity*(paideach-cost),'$999.99') AS "PROFIT" FROM books JOIN orderitems using(ISBN) WHERE order# = 1002;
634
635
636
```

Query Result

SQL | All Rows Fetched: 1 in 0.011 seconds

	TITLE	PROFIT
1	DATABASE IMPLEMENTATION	$49.10

4. 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.)

SELECT title, ROUND((retail-cost)/cost*100,0)||'%' AS "Markup percentage" FROM BOOKS;

```
635
636 /* Name - Ankur Prajapati            Assignment - 9(4)            StudentID: N01324892*/
637 SELECT title, ROUND((retail-cost)/cost*100,0)||'%' AS "Markup percentage" FROM BOOKS;
```

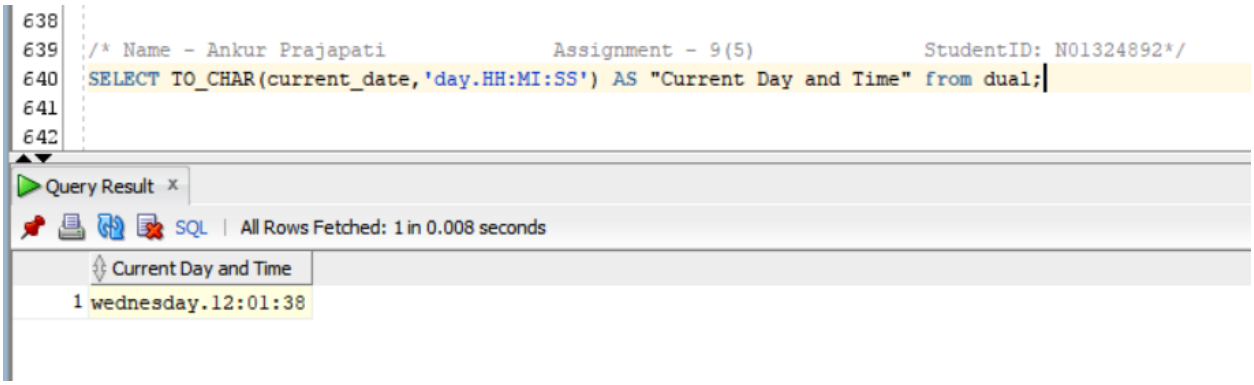
Query Result

SQL | All Rows Fetched: 14 in 0.229 seconds

	TITLE	Markup percentage
1	BODYBUILD IN 10 MINUTES A DAY	65%
2	REVENGE OF MICKEY	55%
3	BUILDING A CAR WITH TOOTHPICKS	59%
4	DATABASE IMPLEMENTATION	78%
5	COOKING WITH MUSHROOMS	60%
6	HOLY GRAIL OF ORACLE	61%
7	HANDCRANKED COMPUTERS	15%
8	E-BUSINESS THE EASY WAY	44%
9	PAINLESS CHILD-REARING	87%
10	THE WOK WAY TO COOK	51%
11	BIG BEAR AND LITTLE DOVE	68%
12	HOW TO GET FASTER PIZZA	68%
13	HOW TO MANAGE THE MANAGER	107%

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

   SELECT TO_CHAR(current_date,'day.HH:MI:SS') AS "Current Day and Time" from dual;



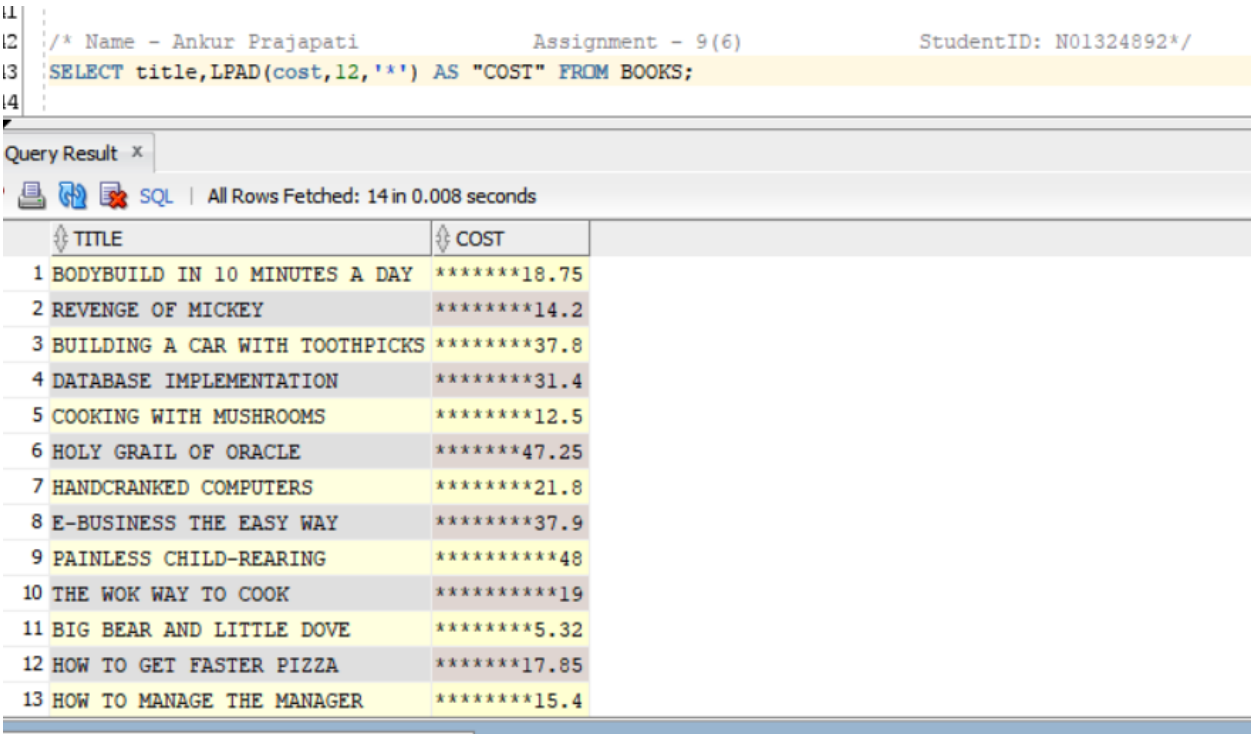
```
638
639  /* Name - Ankur Prajapati              Assignment - 9(5)              StudentID: N01324892*/
640  SELECT TO_CHAR(current_date,'day.HH:MI:SS') AS "Current Day and Time" from dual;
641
642
```

Query Result | SQL | All Rows Fetched: 1 in 0.008 seconds

	Current Day and Time
1	wednesday.12:01:38

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.

   SELECT title, LPAD(cost,12,'*') AS "COST" FROM BOOKS;



```
11
12  /* Name - Ankur Prajapati              Assignment - 9(6)              StudentID: N01324892*/
13  SELECT title,LPAD(cost,12,'*') AS "COST" FROM BOOKS;
14
```

Query Result | SQL | All Rows Fetched: 14 in 0.008 seconds

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

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).

SELECT DISTINCT LENGTH(ISBN) AS "DataLength in ISBN" FROM BOOKS;

```
645 /* Name - Ankur Prajapati            Assignment - 9(7)            StudentID: N01324892*/
646 SELECT DISTINCT LENGTH(ISBN) AS "DataLength in ISBN" FROM BOOKS;
647
```

Query Result

SQL | All Rows Fetched: 1 in 0.044 seconds

	DataLength in ISBN
1	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.

SELECT title, pubdate, SYSDATE, TRUNC(MONTHS_BETWEEN(SYSDATE, pubdate),0)Age FROM BOOKS;

```
48 /* Name - Ankur Prajapati            Assignment - 9(8)            StudentID: N01324892*/
49 SELECT title, pubdate, SYSDATE, TRUNC(MONTHS_BETWEEN(SYSDATE, pubdate),0)Age FROM BOOKS;
50
```

Query Result

SQL | All Rows Fetched: 14 in 0.011 seconds

	TITLE	PUBDATE	SYSDATE	AGE
1	BODYBUILD IN 10 MINUTES A DAY	21-01-05	13-03-19	169
2	REVENGE OF MICKEY	14-12-05	13-03-19	158
3	BUILDING A CAR WITH TOOTHPICKS	18-03-06	13-03-19	155
4	DATABASE IMPLEMENTATION	04-06-03	13-03-19	189
5	COOKING WITH MUSHROOMS	28-02-04	13-03-19	180
6	HOLY GRAIL OF ORACLE	31-12-05	13-03-19	158
7	HANDCRANKED COMPUTERS	21-01-05	13-03-19	169
8	E-BUSINESS THE EASY WAY	01-03-06	13-03-19	156
9	PAINLESS CHILD-REARING	17-07-04	13-03-19	175
10	THE WOK WAY TO COOK	11-09-04	13-03-19	174
11	BIG BEAR AND LITTLE DOVE	08-11-05	13-03-19	160
12	HOW TO GET FASTER PIZZA	11-11-06	13-03-19	148
13	HOW TO MANAGE THE MANAGER	09-05-03	13-03-19	190

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

SELECT NEXT_DAY(SYSDATE,'WEDNESDAY') AS "NEXT WEDNESDAY" FROM DUAL;

```
650
651 /* Name - Ankur Prajapati              Assignment - 9(9)              StudentID: N01324892*/
652 SELECT NEXT_DAY(SYSDATE,'WEDNESDAY') AS "NEXT WEDNESDAY" FROM DUAL;
653
```

Query Result

SQL | All Rows Fetched: 1 in 0.011 seconds

	NEXT WEDNESDAY
1	20-03-19

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.

SELECT customer#, SUBSTR(zip,3,2) AS "3rd and 4th Digit in Zip Code", INSTR(customer#,3) AS "Position of the first occurrence of a 3 in customer#"
FROM customers;

```
653
654 /* Name - Ankur Prajapati              Assignment - 9(10)              StudentID: N01324892*/
655 SELECT customer#, SUBSTR(zip,3,2) AS "3rd and 4th Digit in Zip Code", INSTR(customer#,3)AS "Position of the first occurrence of a 3 in customer#"
656 FROM customers;
```

Query Result

SQL | All Rows Fetched: 20 in 0.587 seconds

	CUSTOMER#	3rd and 4th Digit in Zip Code	Position of the first occurrence of a 3 in customer#
1	1001	32	0
2	1002	40	0
3	1003	30	4
4	1004	70	0
5	1005	11	0
6	1006	21	0
7	1007	71	0
8	1008	00	0
9	1009	51	0
10	1010	31	0
11	1011	60	0
12	1012	11	0
13	1013	71	4