

Reminder: read the Project Guidelines document for instructions on how to format and submit your assignments.

Part 1 – use the Oracle 9i server for the following problems.

Demonstrate that you are using the Oracle 9i server by issuing:

SELECT *

FROM v\$version;

```
SELECT *  
FROM v$version;
```

Execute

Save Script

Clear Screen

Cancel

BANNER
Oracle9i Enterprise Edition Release 9.2.0.1.0 - Production
PL/SQL Release 9.2.0.1.0 - Production
CORE 9.2.0.1.0 Production
TNS for 32-bit Windows: Version 9.2.0.1.0 - Production
NLSRTL Version 9.2.0.1.0 - Production

1. Show the title of all movies whose title is a single word (use LIKE). This problem is a little bit trickier than I intended. If you get stuck, think about character sets, and ask yourself, what does a two-word title have that a single word title does not?

2. Show the title of all movies whose title includes the word *the*. This is not a trick question – when I say the word ‘*the*’ I mean the word ‘*the*’, not the letters: *t h e*. The following title does NOT contain the word *the* THERE IS A HOUSE ON A HILL. To simplify matters, you may presume that no movie is simply titled *The*, nor is *the* the last word in any title (use LIKE).

```
SELECT * FROM movie
```

```
WHERE TITLE LIKE '%TH%E'
```

TITLE	GEN	DURATION	PRODUCTION_YEAR	MED	PURCHASE_PRICE	PURCHASE	MOVIE_ID
THE TIME MACHINE	SF	103	1960	VHS	11.95	15-JAN-98	2110
THE CRAWLING EYE	SF	84	1958	VHS	11.95	24-MAR-98	2220
IN THE LINE OF FIRE	DR	138	1993	LD	22	11-MAR-96	2651
THE WILD GEESE	DR	124	1978	VHS	23.99	24-JAN-92	2551
THE ODESSA FILE	DR	130	1974	VHS	13.99	16-JAN-87	1551
THE GAME	DR	128	1997	DVD	18.5	11-JUL-99	1282
THE SIXTH SENSE	DR	106	1999	DVD	18.98	14-MAY-00	2727
THE CUTTING EDGE	CH	87	1992	VHS	12.95	12-MAY-97	1770

3. Calculate and show the value of 6 raised to the third power (ie. 6^3).

```
SELECT POWER(6,3)FROM dual;
```

Enter statements:

```
SELECT POWER(6,3) FROM dual;
```

Execute

Save Script

Clear Screen

Cancel

POWER(6,3)

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4. Calculate and show the square root of 100 (ie. Raised to the $\frac{1}{2}$ power)

```
SELECT POWER(100, .5) FROM DUAL
```

Enter statements:

```
SELECT POWER(100, .5) FROM DUAL
```

Execute

Save Script

Clear Screen

Cancel

POWER(100,.5)

10

5. For all of the Shakespeare titles in the collection, show the title, cost, and cost + 6% and cost + 7%. Use an appropriate title for the calculated columns. [4 cols]

```
SELECT TITLE, PURCHASE_PRICE, PURCHASE_PRICE +  
((PURCHASE_PRICE * 6) / 100), PURCHASE_PRICE + ((PURCHASE_PRICE  
* 7) / 100)  
FROM movie;  
WHERE gen = 'SF';
```

TITLE	PURCHASE_PRICE	PURCHASE_PRICE+ ((PURCHASE_PRICE*6)/100)	PURCHASE_PRICE+ ((PURCHASE_PRICE*7)/100)
THE DAY THE EARTH STOOD STILL	19.95	21.147	21.3465
THEM	19.95	21.147	21.3465
2001: A SPACE ODYSSEY	24.95	26.447	26.6965
FORBIDDEN PLANET	26.95	28.567	28.8365
METROPOLIS	9.95	10.547	10.6465
THE TERMINATOR	27.95	29.627	29.9065
TERMINATOR 2: JUDGEMENT DAY	27.95	29.627	29.9065
WAR OF THE WORLDS	12.95	13.727	13.8565
THE TIME MACHINE	11.95	12.667	12.7865
STARMAN	24.95	26.447	26.6965
FARENHEIT 451	19.95	21.147	21.3465
STARGATE	10.95	11.607	11.7165
GODZILLA: KING OF THE MONSTERS	10.95	11.607	11.7165
BLADE RUNNER	22.95	24.327	24.5565
TITLE	PURCHASE_PRICE	PURCHASE_PRICE+ ((PURCHASE_PRICE*6)/100)	PURCHASE_PRICE+ ((PURCHASE_PRICE*7)/100)
GATTACA	17.95	19.027	19.2065
SOYLENT GREEN	28.95	30.687	30.9765
THE CRAWLING EYE	11.95	12.667	12.7865
THE TINGLER	11.95	12.667	12.7865
THE MATRIX	19.99	21.1894	21.3893
ALIEN	41	43.46	43.87
ALIENS	38.5	40.81	41.195
SOLARIS	32.95	34.927	35.2565
DUNE	19.95	21.147	21.3465
DARK STAR	19.95	21.147	21.3465
DARKMAN	13.95	14.787	14.9265
DARK CITY	14.25	15.105	15.2475
BRAZIL	15	15.9	16.05
THE ABYSS	22.95	24.327	24.5565
TITLE	PURCHASE_PRICE	PURCHASE_PRICE+ ((PURCHASE_PRICE*6)/100)	PURCHASE_PRICE+ ((PURCHASE_PRICE*7)/100)
THE HIDDEN	10.95	11.607	11.7165
THE ANDROMEDA STRAIN	9.95	10.547	10.6465
ARMAGEDDON	21.95	23.267	23.4865
THE PINK PANTHER	13.5	14.31	14.445
A SHOT IN THE DARK	13.5	14.31	14.445
THE IN-LAWS	9.95	10.547	10.6465
A FUNNY THING HAPPENED ON THE WAY TO THE FORUM	14.29	15.1474	15.2903
THE PRODUCERS	9.95	10.547	10.6465
THE HOT ROCK			

6. For all of the Shakespeare titles in the collection, show the title, cost, and cost + 6% and cost + 7%. Use an appropriate title for the calculated columns. Round all calculations to two decimal places. [4 cols]

```

SELECT TITLE, PURCHASE_PRICE, ROUND(PURCHASE_PRICE +
((PURCHASE_PRICE * 6) / 100), 2), ROUND(PURCHASE_PRICE +
((PURCHASE_PRICE * 7) / 100), 2)
FROM movie;
WHERE gen = 'SF'

```

7. For all of the Shakespeare titles in the collection, show the title, cost, and cost + 6% and cost + 7%. Use an appropriate title for the calculated columns. Truncate all calculations to two decimal places. [4 cols]

```
SELECT TITLE, PURCHASE_PRICE, ROUND(PURCHASE_PRICE +
((PURCHASE_PRICE * 6) / 100), 2), ROUND(PURCHASE_PRICE +
((PURCHASE_PRICE * 7) / 100), 2)
FROM movie;
WHERE gen = 'SF';
```

TITLE	PURCHASE_PRICE	ROUND(PURCHASE_PRICE + ((PURCHASE_PRICE*6)/100),2)	ROUND(PURCHASE_PRICE + ((PURCHASE_PRICE*7)/100),2)
THE DAY THE EARTH STOOD STILL	19.95	21.15	21.35
THEM	19.95	21.15	21.35
2001: A SPACE ODYSSEY	24.95	26.45	26.7
FORBIDDEN PLANET	26.95	28.57	28.84
METROPOLIS	9.95	10.55	10.65
THE TERMINATOR	27.95	29.63	29.91
TERMINATOR 2: JUDGEMENT DAY	27.95	29.63	29.91
WAR OF THE WORLDS	12.95	13.73	13.86
THE TIME MACHINE	11.95	12.67	12.79
STARMAN	24.95	26.45	26.7
FARENHEIT 451	19.95	21.15	21.35
STARGATE	10.95	11.61	11.72
GODZILLA: KING OF THE MONSTERS	10.95	11.61	11.72
BLADE RUNNER	22.95	24.33	24.56
TITLE	PURCHASE_PRICE	ROUND(PURCHASE_PRICE + ((PURCHASE_PRICE*6)/100),2)	ROUND(PURCHASE_PRICE + ((PURCHASE_PRICE*7)/100),2)
GATTACA	17.95	19.03	19.21
SOYLENT GREEN	28.95	30.69	30.98
THE CRAWLING EYE	11.95	12.67	12.79
THE TINGLER	11.95	12.67	12.79
THE MATRIX	19.99	21.19	21.39
ALIEN	41	43.46	43.87
ALIENS	38.5	40.81	41.2
SOLARIS	32.95	34.93	35.26
DUNE	19.95	21.15	21.35
DARK STAR	19.95	21.15	21.35
DARKMAN	13.95	14.79	14.93
DARK CITY	14.25	15.11	15.25
BRAZIL	15	15.9	16.05
THE ABYSS	22.95	24.33	24.56
TITLE	PURCHASE_PRICE	ROUND(PURCHASE_PRICE + ((PURCHASE_PRICE*6)/100),2)	ROUND(PURCHASE_PRICE + ((PURCHASE_PRICE*7)/100),2)
THE HIDDEN	10.95	11.61	11.72
THE ANDROMEDA STRAIN	9.95	10.55	10.65
ARMAGEDDON	21.95	23.27	23.49
THE PINK PANTHER	13.5	14.31	14.45
A SHOT IN THE DARK	13.5	14.31	14.45
THE IN-LAWS	9.95	10.55	10.65
A FUNNY THING HAPPENED ON THE WAY TO THE FORUM	14.29	15.15	15.29
THE PRODUCERS	9.95	10.55	10.65
THE HOT ROCK			

8. For each of the CH films (genre=CH), show the title in all lower case characters.

```
SELECT LOWER(TITLE)
```

```
FROM movie
```

```
WHERE GEN = 'CH';
```

9. For each of the CH films (genre=CH), display the title in such a fashion that only the first letter in each word is capitalized.

```
SELECT UPPER(title)
```

```
FROM movies
```

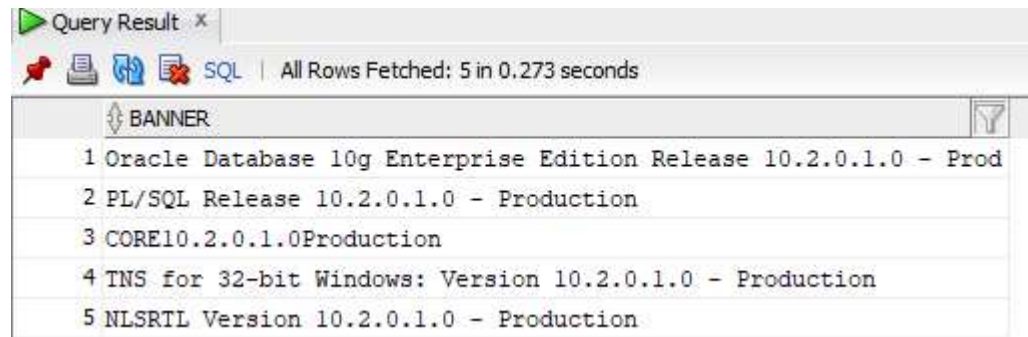
```
WHERE genre = 'CH'
```

Part 2 – use the Oracle 10g server for the following problems.

Demonstrate that you are using the Oracle 10g server by issuing:

```
SELECT *
```

```
FROM v$version;
```



BANNER
1 Oracle Database 10g Enterprise Edition Release 10.2.0.1.0 - Prod
2 PL/SQL Release 10.2.0.1.0 - Production
3 CORE10.2.0.1.0Production
4 TNS for 32-bit Windows: Version 10.2.0.1.0 - Production
5 NLSRTL Version 10.2.0.1.0 - Production

10. Show today's date, as well as the last day (date) of the current month. [2 cols]

```
SELECT CURRENT_DATE, LAST_DAY(CURRENT_DATE)
```

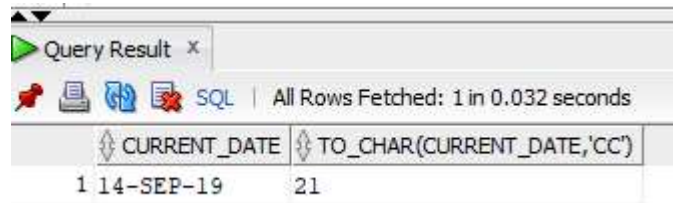
```
FROM DUAL
```



CURRENT_DATE	LAST_DAY(CURRENT_DATE)
1 14-SEP-19	30-SEP-19

11. Display today's date and the two digits of the century for today's date. (For example, April 13, 2004 occurs in the 21st century) [2 cols]


```
SELECT CURRENT_DATE, TO_CHAR(CURRENT_DATE, 'CC')
FROM DUAL
```



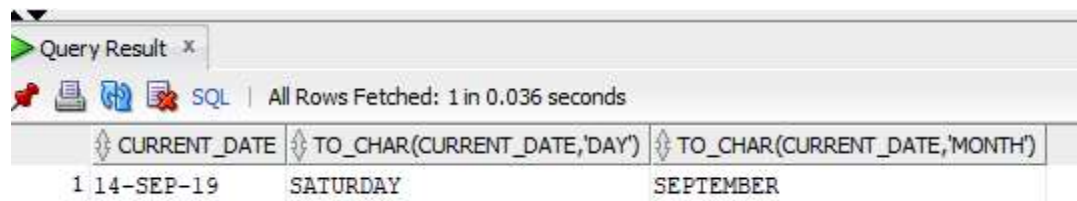
Query Result x

SQL | All Rows Fetched: 1 in 0.032 seconds

	CURRENT_DATE	TO_CHAR(CURRENT_DATE, 'CC')
1	14-SEP-19	21

12. Display today's date and (the name of) the day of the week it is, and the name of the month in which it occurs. [3 cols]

```
SELECT CURRENT_DATE, TO_CHAR(CURRENT_DATE, 'DAY'),
TO_CHAR(CURRENT_DATE, 'MONTH')
FROM DUAL
```



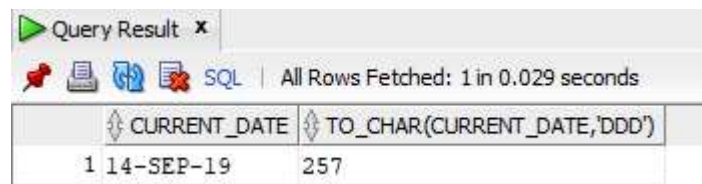
Query Result x

SQL | All Rows Fetched: 1 in 0.036 seconds

	CURRENT_DATE	TO_CHAR(CURRENT_DATE, 'DAY')	TO_CHAR(CURRENT_DATE, 'MONTH')
1	14-SEP-19	SATURDAY	SEPTEMBER

13. Display today's date and the day of the year (sometimes referred to as the Julian Day, or Julian Date) for today's date. [2 cols]

```
SELECT CURRENT_DATE, TO_CHAR(CURRENT_DATE, 'DDD')
FROM DUAL
```



Query Result x

SQL | All Rows Fetched: 1 in 0.029 seconds

	CURRENT_DATE	TO_CHAR(CURRENT_DATE, 'DDD')
1	14-SEP-19	257

14. Display today's date and the Roman Numerals for both the month and year values of today's date. [3 cols]

```
SELECT CURRENT_DATE, TO_CHAR(CURRENT_DATE,
'RM'), TO_CHAR(CURRENT_DATE, 'YYYY')
FROM DUAL
```

Query Result x		
SQL All Rows Fetched: 1 in 0.031 seconds		
CURRENT_DATE	TO_CHAR(CURRENT_DATE,'RM')	TO_CHAR(CURRENT_DATE,'YYYY')
1 14-SEP-19	IX	2019

15. Display today's date and the name of the month, in lower case, for the month 3 month's hence (ie today's date + 3 months). [2 cols]

```
SELECT CURRENT_DATE, TO_CHAR(ADD_MONTHS(CURRENT_DATE,
3),LOWER('MONTH'))
FROM DUAL
```

Query Result x	
SQL All Rows Fetched: 1 in 0.029 seconds	
CURRENT_DATE	TO_CHAR(ADD_MONTHS(CURRENT_DATE,3),LOWER('MONTH'))
1 14-SEP-19	december