Review Questions EXAM 1 (Chapters 1 – 4)

For each of the following review questions, save the solution as "rev1_pX", where X is the problem number, i.e. rev1_p1, rev1_p2, etc.

1. Display the employee number, last name, salary and salary increased by 15% rounded off to a whole number. Only include those employees whose salary falls in the range of two values, that are entered by the user. Label the calculated column "New Salary". Now add a column, labeled "Increase" that subtracts the old salary from the new salary. Sort in descending order by salary. Format salary figures for dollar sign, comma, and no decimal places.

```
SQL> set verifu off
SQL> @ c:\oracle\exam1review\rev1_p1
Enter value for low_salary: 4000
Enter value for high_salary: 4500
LAST_NAME
                             SALARY New Salary Increase
                             $4,400
                                        $5,060
                                                    $660
Whalen
                             $4,200
                                        $4,830
                                                    $630
Lorentz
Sarchand
                             $4,200
                                        $4,830
                                                    $630
                             $4,100
Bull
                                         $4,715
                                                    $615
Bell
                             $4,000
                                        $4,600
                                                    $600
```

2. Write the SQL query to retrieve the following data for each student (lastname, firstname) and their age, padded out to 22 characters with asterisks. Also, list the Pin number. Then display the coded pin number, which is the digits of the printed backwards. Order by the student's last name. An example of the output for the query is shown below. (ages may be slightly different depending on today's date.)

```
Student Name and Age Pin Coded Pin

Black, Daniel******** 29 1613 3161
Connoly, Michael***** 25 9188 8819
Miller, Sarah******* 27 8891 1988
Mobley, Amanda****** 25 1841 1481
Sanchez, Ruben****** 25 4420 0244
Umato, Brian****** 26 1230 0321

6 rows selected.
```

3. Retrieve all of the fields from the ENROLLMENT table in which a grade has either not yet been assigned (null entries) or is not a 'C'. For null entries, output two dashes (--), for all other grades, show the letter grade 'A', 'B', etc. Order the output by grade. Display 25 rows per page, as shown below:

Student Number	Section	Grade
3	12	
6	11	
5	13	
5	11	
4	12	
4	11	
3	13	
6	12	
2	6	A
1	4	A
1	1	A
5	1	В
2	9	В
2	5	В
1	9	В
1	6	В
16 rows select	ed.	

4. Display the employee's name (lastname, firstname), hire date, and 6 month review date, which is the first Wednesday after six months of employment. Label the columns as shown. Display only those employees who were hired on or after January 1, 2000. Put in order by hire date. Format and label columns as shown.

Employee	Date Hired	6 Month Review
Johnson, Charles	04-JAN-00	05-JUL-00
Grant, Douglas	13-JAN-00	19-JUL-00
Marvins, Mattea	24-JAN-00	26-JUL-00
Zlotkey, Eleni	29-JAN-00	02-AUG-00
Geoni, Girard	03-FEB-00	09-AUG-00
Philtanker, Hazel	06-FEB-00	09-AUG-00
Lee, David	23-FEB-00	30-AUG-00
Markle, Steven	08-MAR-00	13-SEP-00
Ande, Sundar	24-MAR-00	27-SEP-00
Banda, Amit	21-APR-00	25-0CT-00
Kumar, Sundita	21-APR-00	25-0CT-00
11 rows selected.		

5. Retrieve the C_SEC_ID, SEC_NUM, C_SEC_DAY, and C_SEC_TIME for all courses in the COURSE_SECTION table that meet on Monday. Format the TIME field so that time values appear as a time with 'a.m.' or 'p.m.'. Give each column a more appropriate column heading. Order by C_SEC_DAY, then C_SEC_TIME.

To display the time use TO_CHAR(column_name, 'HH:MI a.m.')

SECTION ID	NUMBER	DAYS	TIME
12	1	MTWRF	08:00 a.m.
11	1	MTWRF	08:00 a.m.
13	1	MTWRF	09:00 a.m.
3	3	MWF	08:00 a.m.
6	1	MWF	09:00 a.m.
1	1	MWF	10:00 a.m.
7	2	MWF	10:00 a.m.
9	1	MWF	02:00 p.m.
10	2	MWF	03:00 p.m.
9 rows sele	ected.		