OLIVIA OCTAVIA SUMAILAH AIT524 HOMEWORK ASSIGNMENT 11

1. Retrieved text to display my name and determine the position of a single blank space from the emplpyee_tbl, and department_tbl tables using the join-using keyword.

```
SQL> SELECT 'olivia sumailah', INSTR('olivia sumailah', ' ') FROM EMPLOYEE_TBL JOIN DEPARTMENT_TBL USING (emp_id);

'OLIVIASUMAILAH INSTR('OLIVIASUMAILAH','')
--------------- --------------------------
olivia sumailah                          7
olivia sumailah                          7
olivia sumailah                          7

SQL> OLIVIA
```

2. Extracted a substring that represented my last name by specifying the number of a character string from the emplpyee_tbl, and department_tbl tables using the join-using keyword.

```
SQL> SELECT SUBSTR('sumailah', 8) FROM EMPLOYEE_TBL JOIN DEPARTMENT_TBL USING (emp_id);

S
-
h
h
h

SQL> OLIVIA SUMAILAH
```

3. Extracted her full name, and a substring of the alias full name from the emplpyee_tbl, and department_tbl tables using the join-using keyword.

```
SQL> SELECT 'emp_fname'||' '||'emp_lname' AS " FULL NAMES", SUBSTR('FULL NAMES', INSTR('FULL NAMES', ' ') -4, 4) FROM EMPLOYEE_TBL JOIN DEPARTMENT_TBL USING (emp_id);

 FULL NAMES         SUBS
-------------------- ----
emp_fname emp_lname FULL
emp_fname emp_lname FULL
emp_fname emp_lname FULL

SQL> SELECT 'emmanuella'||' '||'smith' AS " FULL NAMES", SUBSTR('FULL NAMES', INSTR('FULL NAMES', ' ') -4, 4) FROM EMPLOYEE_TBL JOIN DEPARTMENT_TBL USING (emp_id);

 FULL NAMES      SUBS
---------------- ----
emmanuella smith FULL
emmanuella smith FULL
emmanuella smith FULL

SQL> OLIVIA
```

4. Extracted a substring, that represented my last name by assuming, that the length is unknown from the emplpyee_tbl, and department_tbl tables using the join-using keyword.

```
SQL> SELECT SUBSTR('olivia sumailah', INSTR('olivia sumailah', ' ') +1, length('olivia sumailah')- INSTR('olivia sumailah', ' ')) FROM EMPLOYEE_TBL JOIN DEPARTMENT_TBL USING (emp_id);

SUBSTR('
--------
sumailah
sumailah
sumailah

SQL> OSUMAILAH
```

5. Retrieved the last name of each employees in the employee_tbl table using a GROUP BY clause.

```
SQL> SELECT EMP_LNAME FROM EMPLOYEE_TBL GROUP BY EMP_LNAME;

EMP_LNAME
-------------------------------------
sumailah
smith
mensah

SQL> OLIVIA
```

6. Retrieved the last name of each employees in the employee_tbl table using a WHERE clause, and a GROUP BY clause.

```
SQL> SELECT EMP_LNAME FROM EMPLOYEE_TBL WHERE EMP_LNAME LIKE 's%' GROUP BY EMP_LNAME;

EMP_LNAME
------------------------------------
sumailah
smith

SQL> OLIVIA
```

7. Retrieved the last name of each employees in the employee_tbl table using a WHERE clause, a GROUP BY clause, and a HAVING statement.

```
SQL> SELECT EMP_LNAME FROM EMPLOYEE_TBL WHERE EMP_LNAME LIKE 's%' GROUP BY EMP_LNAME HAVING EMP_LNAME = 'mensah';

no rows selected

SQL> OLIVIA
```

8. Retrieved emp_id from the emplpyee_tbl, department_tbl , and salariedemployee_tbl tables using a WHERE, a GROUP BY, and a HAVING statements.

```
SQL> SELECT EMP_ID FROM EMPLOYEE_TBL JOIN DEPARTMENT_TBL USING (emp_id) JOIN SALARIEDEMPLOYEE_TBL using (dept_id) WHERE EMP_ID IS NOT NULL GROUP BY EMP_ID HAVING EMP_ID = 'GM670';

no rows selected

SQL> OLIVIA SUMAILAH
```

9. Retrieved dept_desc, and dept_location columns from the department_tbl using a where, and group by rollup statements.

```
SQL> SELECT DEPT_DESC, DEPT_LOCATION FROM DEPARTMENT_TBL WHERE DEPT_ID IN ('GM670', 'OS248', 'ES832') GROUP BY ROLLUP(DEPT_DESC, DEPT_LOCATION) ORDER BY DEPT_DESC, DEPT_LOCATION;

no rows selected

SQL> OLIVIA SUMAILAH
```

10. Retrieved emp_id , emp_lname from the emplpyee_tbl, and department_tbl , tables using a WHERE, a GROUP BY ROLLUP statements.

```
SQL>  SELECT EMP_ID, EMP_LNAME FROM EMPLOYEE_TBL JOIN DEPARTMENT_TBL USING (EMP_ID) WHERE EMP_ID = 'GM670' GROUP BY ROLLUP (EMP_ID, EMP_LNAME) ORDER BY EMP_ID, EMP_LNAME;

EMP_I EMP_LNAME
------ ------------------------------------
GM670 mensah
GM670


SQL> OCTAVIA OLIVIA SUMAILAH
```

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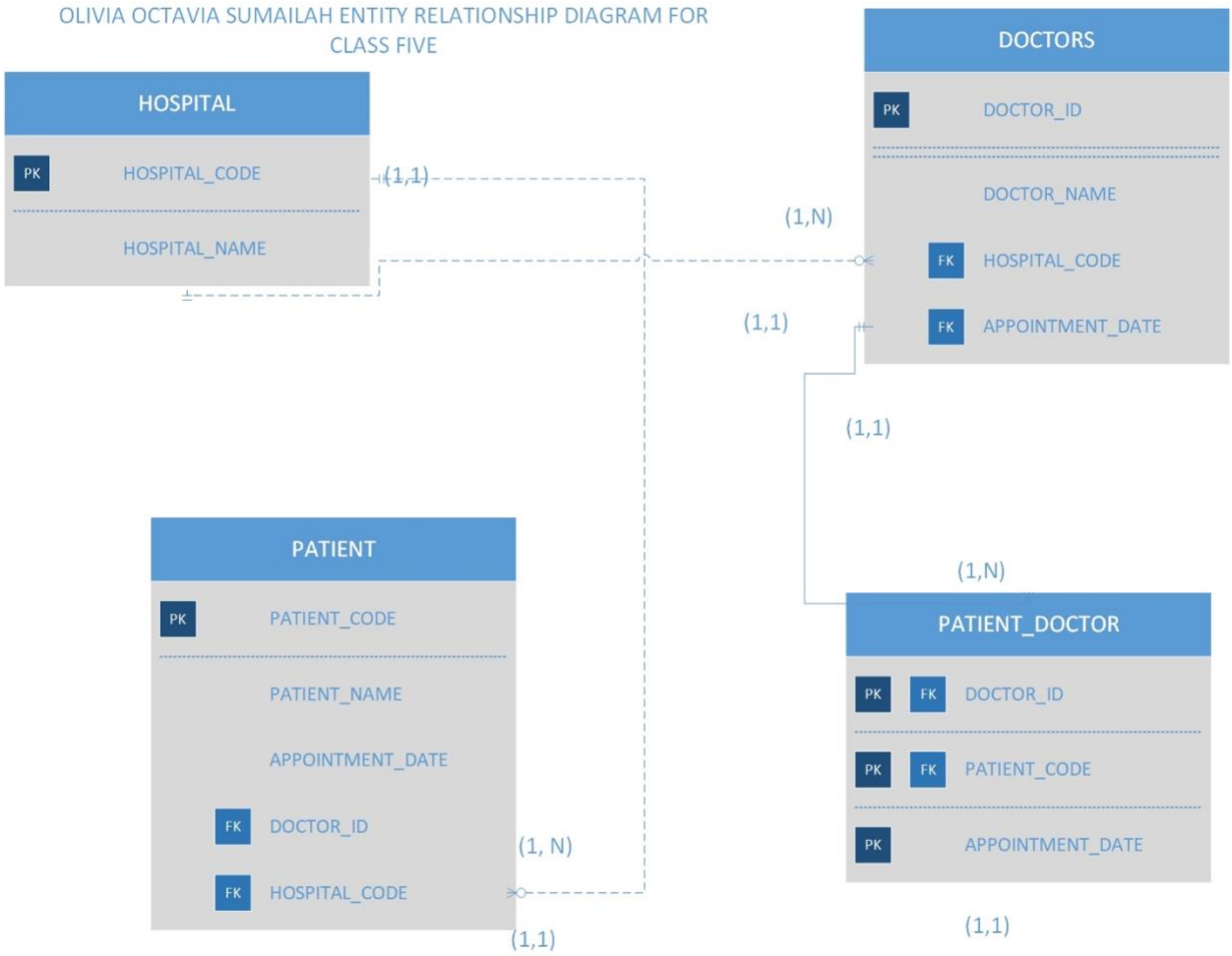

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