**WEEK #3 QUIZ#2**

**PROBLEM #1:**

BLDG OFFICE

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K Building #112

K Bldg 115

H #114

SQL> SELECT SUBSTR(bldg,1,1)||SUBSTR(office,-3,3)

2 FROM bldgofc;

**Output**

K112

K115

H114

Explanation:

SUBSTR(bldg,1,1) bldg is column,starts with first character, length is one character || SUBSTR(office,-3,3) office is column, starts with third last character and goes for 3 characters.

**PROBLEM #2:**

BLDGOFC

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Building K #112

#115 K

Office K#114

SQL> SELECT SUBSTR(bldgofc,instr(bldgofc,'#')+1,3)

2 FROM ofbl;

**Output:**

112

115

114

Explanation:

SUBSTR(bldgofc,instr(bldgofc,'#')+1,3)

This code will extract substring from bldgofc. The first character will be determined bu using INSTR to find # in bldgofc and plus 1 character after that and number of characters taken are 3.

**PROBLEM #3:**

SELECT SUBSTR(contact,ROUND(MOD(yrgoal,7),0),5)

FROM donor;

Output:

hn Sm

Susan

my Co

John

Amy C

This code will extract substring from contact. The first character will be determined by first getting the MOD of YRGOAL divide by 7 and rounding with no decimal digits.

Like in first record Yrgoal is 500. MOD(500/7) is 3 after rounding it comes to 3 so the first record will start from 3rd character which is **h** and goes to 5 characters after that. The result is hn sm. There is no YRGOAL for record with IDNO 22222 so there is no result.

**PROBLEM #4:**

select contact, count(\*)

2 from donor

3 group by contact

4 order by contact;

**OUTPUT:**

CONTACT COUNT

Amy Costa 2

John Adams 1

John Smith 1

Susan Jones 2

Explanation:

This code will display contacts and count people with same contact. We use GROUP BY to make groups of same contacts and count(\*) to count records in each group.

**PROBLEM #5:**

SQL> select state, count(\*)

2 from donor

3 where datefst !='04-MAR-92'

4 group by state

5 having state = 'MA'

**Output:**

STATE COUNT

MA 2

This code will select State from donor table where date is not equal to '04-MAR-92'. So all the with '04-MAR-92' are not selected then with group by state we get two groups of MA and RI. At last with having state = ‘MA’ will only display records with state MA. Count(\*) will count rows with group MA.