

Chapter 3&4 Task

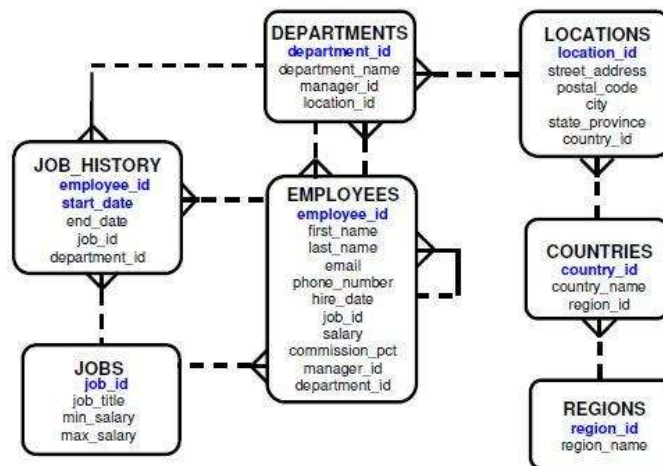
Instructions:

-Study well and please attach Screen shots from the executable code in addition to sample of queries' results in your Answers.

- If you want to know any column name in a specific table you have to apply describe command: desc table_name.

-HR schema:

The Human Resources (HR) Schema



1- Display the employees' names concatenated and commissions for all Employees, if no commission, displays (no commission), you can display the first four rows.

```
SQL> select concat(first_name, concat(' ', last_name)) "FullName" , decode( commission_pct , null, 'no commission',
  commission_pct) "Decode"
  2   from employees
  3  where rownum <= 4;
```

FullName	Decode
Steven King	no commission
Neena Kochhar	no commission
Lex De Haan	no commission
Alexander Hunold	no commission

```
SQL>
```

```

select concat(first_name,concat(' ',last_name)) as "Full Name", commission_pct, nvl (commission_pct,0) as "Commission"
from hr.employees
where rownum <=4;

select concat(first_name,concat(' ',last_name)) as "Full Name", nvl(to_char(commission_pct),'no commission') as "Commission"
from hr.employees
where rownum <=4;

```

2- Display the employees' names and commissions for all employees, if no commission, displays (0) hint (you can display the first four rows).

```

SQL> select concat(first_name, concat(' ', last_name)) "FullName" , nvl(commission_pct , 0) "NVL"
2   from employees
3   where rownum <= 4;

```

FullName	NVL
-----	-----
Steven King	0
Neena Kochhar	0
Lex De Haan	0
Alexander Hunold	0

SQL>

**3- Write a query using
Decode & case as single row functions
that displays the grade of all employees
based on the value of the column Job_id
, as per the table shown below:**

JOB	GRADE
AC_ACCOUNT	A
AC_MGR	B
AD_ASST	C
AD_VP	D
IT_PROG	E
None of above	O

```
SQL> select job_id,decode( job_id , 'AC_ACCOUNT' , 'A' , 'AC_MGR', 'B' , 'AD_ASST', 'C', 'AD_VP' , 'D' , 'IT_PROG' , 'E'
1  , 'O') "Grade"
2  from employees
3  ;
```

```
JOB_ID      G
-----
AC_ACCOUNT  A
AC_MGR      B
AD_ASST     C
AD_PREST    O
AD_VP       D
AD_VP       D
FI_ACCOUNT  O
FI_ACCOUNT  O
FI_ACCOUNT  O
FI_ACCOUNT  O
FI_ACCOUNT  O
```

```
*Untitled - Notepad
File Edit Format View Help
select case job_id when 'AC_ACCOUNT' then 'A' when 'AC_MGR' then 'B' when 'AD_ASST' then 'C' when 'AD_VP' then 'D' when 'IT_PROG'
then 'E' else 'O' end as "Grade" from employees
;
```

4- Display the employees' first and last names and compare between their first and last name number of characters [Length] as Result
Hint (you can print the first four rows).

```
Connected.
SQL> select first_name , last_name , nullif(length(first_name ) , length(last_name )) as "compare"
  2   from employees
  3   where rownum <= 5
  4   ;
```

FIRST_NAME	LAST_NAME	compare
Ellen	Abel	5
Sundar	Ande	6
Mozhe	Atkinson	5
David	Austin	5
Hermann	Baer	7

```
SQL>
```

5-

Accept an employee number as a user input with sql*plus substitution variable,

if employee salary is less than 1000
set the commission amount of employee to 10%,

if employee salary is between 1000 and 2000
set the commission amount of employee to 15%,

if employee salary is greater than 2000
set the commission amount of employee to 20%.

```
SQL> select employee_id , salary , commission_pct ,
2 case
3 when salary < 1000 then commission_pct *1.10
4 when salary between 1000 and 2000 then commission_pct *1.15
5 else commission_pct *1.20
6 end as "NewCommission"
7 from employees
8 where employee_id = &emp_id;
Enter value for emp_id: 178
old 8: where employee_id = &emp_id
new 8: where employee_id = 178

EMPLOYEE_ID      SALARY COMMISSION_PCT NewCommission
-----
178             7000             .15             .18

SQL>
```

6-Display the date of the following:

Today,

Next (Friday) from '1-Jan-2019',

last day of February 2020,

the no.of months between 1-Jan-2019 and 20-Aug-2019.

```
SQL> select sysdate, next_day(sysdate , 'friday') "ND" , last_day('10-feb-2020')"LD" ,months_between('20-aug-2019' , '1-
jan-2019')"M's"
2 from dual;

SYSDATE ND LD M's
-----
26-OCT-22 28-OCT-22 29-FEB-20 7.61290323

SQL>
```

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