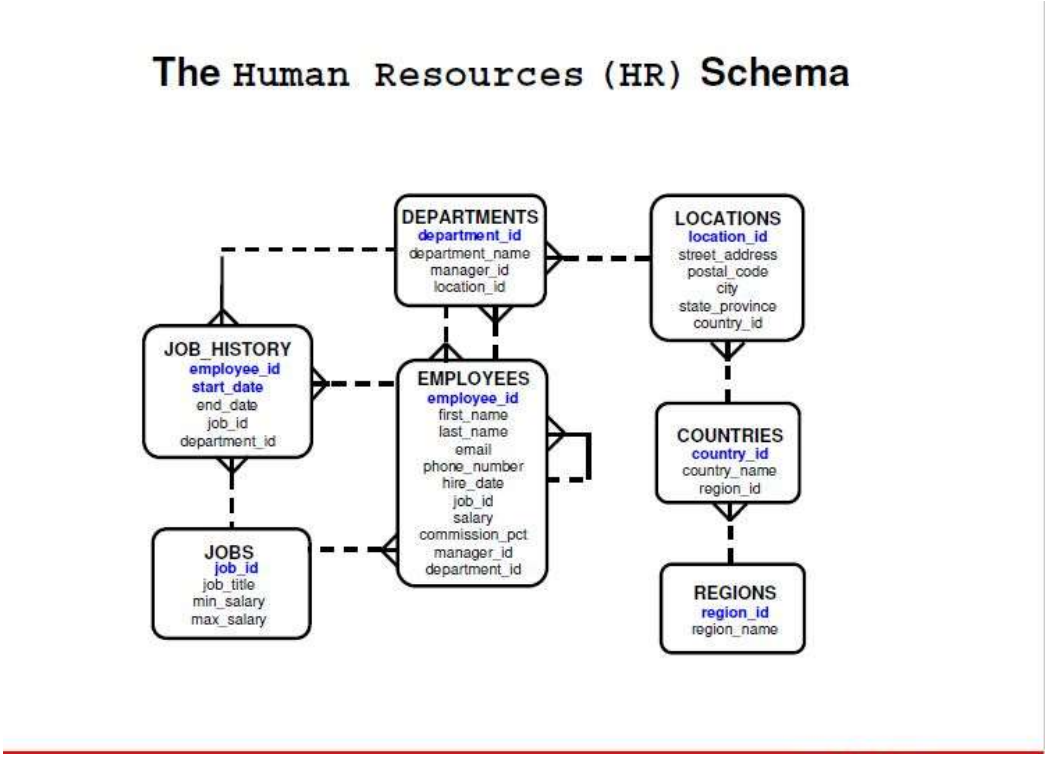
Chapter 2 Task

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:



1- **Display the full name , employees' numbers and salaries for the first 5 rows [by using in the condition: where rownum <= 5]**

SQL Worksheet

```
1  select first_name ||' ' || last_name as "FullName" , employee_id as "employees' numbers", salary as "Salary"
2  from hr.employees
3  where rownum <=5 ;
```

FullName	employees' numbers	Salary
Steven King	100	24000
Neena Kochhar	101	17000
Lex De Haan	102	17000
Alexander Hunold	103	9000
Bruce Ernst	104	6000

Download CSV

5 rows selected.

2- Display the name and salary for all employees whose salary in the range of 3500$ and 7200$.

```
1  select first_name ||' ' || last_name as "FullName" , salary as "Salary"
2  from hr.employees
3  where salary between 3500 and 7200 ;
```

FullName	Salary
Bruce Ernst	6000
David Austin	4800
Valli Pataballa	4800
Diana Lorentz	4200
Luis Popp	6900
Shanta Vollman	6500
Kevin Mourgos	5800
Renske Ladwig	3600
Trenna Rajs	3500
Oliver Tuvault	7000
Sarath Sewall	7000
Mattea Marvins	7200
David Lee	6800
Sundar Ande	6400
Amit Banda	6200
Sundita Kumar	6100
Kimberely Grant	7000
Charles Johnson	6200
Nandita Sarchand	4200
Alexis Bull	4100
Kelly Chung	3800
Jennifer Dilly	3600
Sarah Bell	4000
Britney Everett	3900
Jennifer Whalen	4400
Pat Fay	6000
Susan Mavris	6500

Download CSV
27 rows selected.

3- Display the name, salary and commission for all employees who earn commissions, Sort data in descending order of salary and commissions.

```sql
select first_name || ' ' || last_name as "full name" , salary ,
commission_pct
from hr.employees
where commission_pct is not null
order by 2 desc , 3 desc;
```

Name	SALARY	Commission
Sundita Kumar	6100	.1
Amit Banda	6200	.1
Charles Johnson	6200	.1
Sundar Ande	6400	.1
David Lee	6800	.1
Kimberely Grant	7000	.15
Oliver Tuvault	7000	.15
Sarath Sewall	7000	.25
Mattea Marvins	7200	.1
Elizabeth Bates	7300	.15
William Smith	7400	.15
Nanette Cambrault	7500	.2
Louise Doran	7500	.3
Christopher Olsen	8000	.2
Lindsey Smith	8000	.3
Jack Livingston	8400	.2
Jonathon Taylor	8600	.2
Alyssa Hutton	8800	.25
Peter Hall	9000	.25
Allan McEwen	9000	.35
Danielle Greene	9500	.15
David Bernstein	9500	.25
Patrick Sully	9500	.35
Tayler Fox	9600	.2
Harrison Bloom	10000	.2
Peter Tucker	10000	.2

4- **Display the name, job and salary for all employees whose job is Clerk or Analyst and their salary is not equal to $1000,$3000 or $5000**

```
53
54 select first_name || ' ' || last_name as "full name" , job_id ,salary
55 from hr.employees
56 where job_id in ('ST_CLERK' , 'SA_REP') and  salary not in (1000 , 3000 , 5000 );
57
58
```

full name	JOB_ID	SALARY
Julia Nayer	ST_CLERK	3200
Irene Mikkilineni	ST_CLERK	2700
James Landry	ST_CLERK	2400
Steven Markle	ST_CLERK	2200
Laura Bissot	ST_CLERK	3300
Mozhe Atkinson	ST_CLERK	2800
James Marlow	ST_CLERK	2500
TJ Olson	ST_CLERK	2100
Jason Mallin	ST_CLERK	3300

5- notice … last line can be

where job_id in ('ST_CLERK' , 'SA_REP') and not (salary in (1000 , 3000 , 5000));

6- **Display all information about employees whose names end with letter ‘r’.**

```
57
58 select first_name || ' ' || last_name as "full name" , job_id ,salary
59 from hr.employees
60 where first_name like '%r';
61
```

full name	JOB_ID	SALARY
Alexander Hunold	IT_PROG	9000
Alexander Khoo	PU_CLERK	3100
Peter Vargas	ST_CLERK	2500
Peter Tucker	SA_REP	10000
Peter Hall	SA_REP	9000
Christopher Olsen	SA_REP	8000
Oliver Tuvault	SA_REP	7000
Sundar Ande	SA_REP	6400
Tayler Fox	SA_REP	9600
Jennifer Dilly	SH_CLERK	3600
Jennifer Whalen	AD_ASST	4400

Download CSV

11 rows selected.

6. **Display the employees Id, name who earns more than 5000 LE month and sort the result in an ascending order.**

```
63
64  select employee_id ,first_name || ' ' || last_name as "full name" , salary
65  from hr.employees
66  where salary > 5000
67  order by salary;
```

EMPLOYEE_ID	full name	SALARY
124	Kevin Mourgos	5800
202	Pat Fay	6000
104	Bruce Ernst	6000
173	Sundita Kumar	6100
179	Charles Johnson	6200
167	Amit Banda	6200
166	Sundar Ande	6400
203	Susan Mavris	6500

7. **Display the employees Id, name who earns more than 25000 LE annually and sort the result in a descending order.**

Code

```
select employee_id ,first_name || ' ' || last_name as "full name" , salary

from hr.employees

where salary*12 > 25000

order by salary desc;
```

shots

EMPLOYEE_ID	full name	SALARY
100	Steven King	24000
101	Neena Kochhar	17000
102	Lex De Haan	17000
145	John Russell	14000
146	Karen Partners	13500
201	Michael Hartstein	13000
108	Nancy Greenberg	12008

8.

9. **Display the Departments full data of those which their names start with "I" letter.**

Code

```
select *

from hr.departments

where department_name like 'I%';
```

shots

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
60	IT	103	1400
210	IT Support	-	1700
230	IT Helpdesk	-	1700

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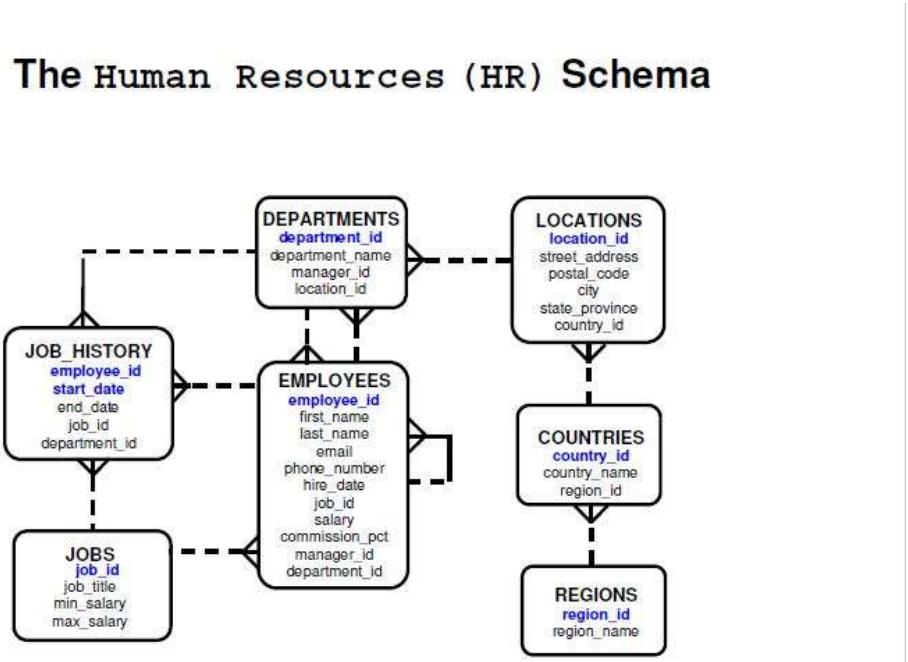
3 rows selected.



10.
11. **display all the employees in department 100 whose salaries not from 4000 to 5500 LE monthly.**

code

```
select employee_id

from hr.employees

where (department_id = 100) and not (salary between 4000 and 5500);
```

shots

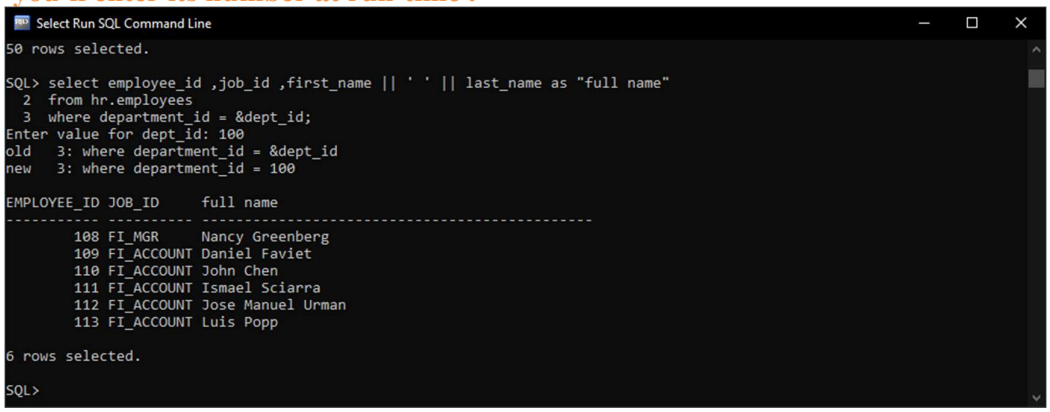
EMPLOYEE_ID
108
109
110
111
112
113

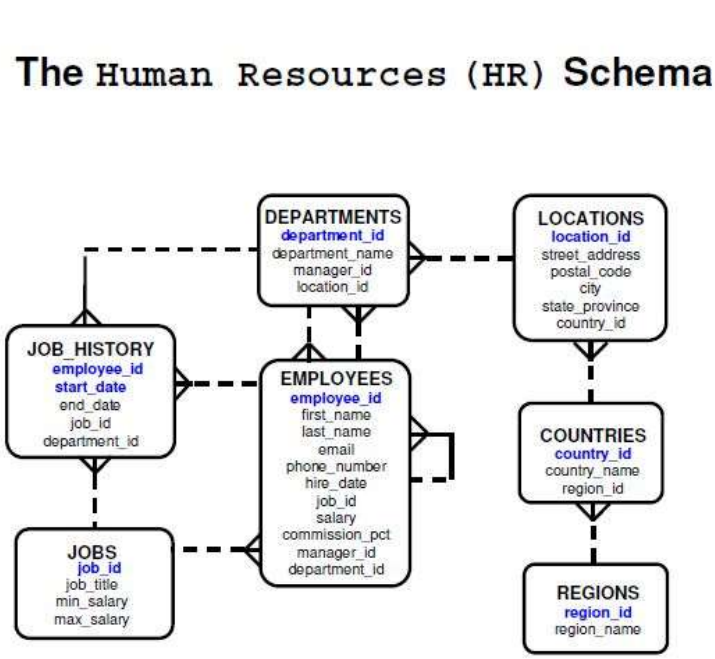
Download CSV

6 rows selected.

12.

13. **Display number, job title and full name for all employees who work in the department ,**
you'll enter its number at run-time .





14.

15. **Display all information about jobs which their minimum salaries between 3000 and their maximum is 8000.**

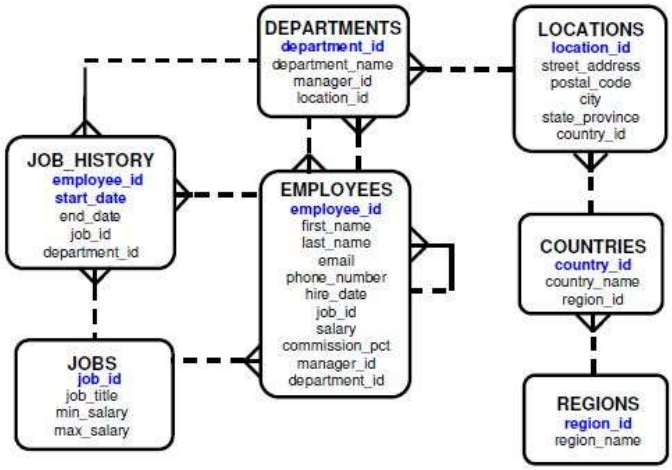
Code

```
SQL> select *
  2  from jobs
  3  where MIN_SALARY = 3000 and MAX_SALARY = 8000;

no rows selected

SQL>
```

16.
17. Display
    department number and manager number
    for the department
    which you'll specify its name and department number as an order at run-time.

```
SQL> select department_id , manager_id
  2  from departments
  3  where department_name ='&dep_name' and department_id = &dep_id;
Enter value for dep_name: Sales
Enter value for dep_id: 80
old   3: where department_name ='&dep_name' and department_id = &dep_id
new   3: where department_name ='Sales' and department_id = 80

DEPARTMENT_ID MANAGER_ID
------------- ----------
           80        145
```

The Human Resources (HR) Schema



18.
19. Display all information of employees who don't have managers.

```
SQL> select *
  2  from employees
  3  where manager_id is null;

EMPLOYEE_ID FIRST_NAME           LAST_NAME
----------- -------------------- -------------------------
EMAIL                     PHONE_NUMBER         HIRE_DATE JOB_ID         SALARY
------------------------- -------------------- --------- ---------- ----------
COMMISSION_PCT MANAGER_ID DEPARTMENT_ID
-------------- ---------- -------------
        100 Steven               King
SKING                     515.123.4567         17-JUN-03 AD_PRES         24000
                                    90


SQL>
```

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