Practical 2: Queries using Wildcard special Operators

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1. Write a query to list the names (first and last) of those employees whose name starts with A.

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   SQL> connect system/bsccs Connected.
   SQL> alter user hr account unlock;

   User altered.

   SQL> alter user hr identified by hr;

   User altered.

   SQL> connect hr/hr; Connected.
   SQL> select * from employees;

   (107 ROWS)
   107 rows selected.

   SQL> select first_name,last_name from employees
     2 where first_name like 'A%';

   FIRST_NAME   LAST_NAME
   ------------------- ------------------------ Amit
   Banda
   Alexis   Bull
   Anthony   Cabrio

```
Alberto          Errazuriz
Adam             Fripp
Alexander          Hunold
Alyssa           Hutton
Alexander          Khoo
Allan            McEwen
Alana            Walsh
```

10 rows selected.

2. Write a query to list the names (first and last) of those employees whose last name ends with a.

```
SQL> select first_name,last_name from employees
2   where last_name like '%a';

FIRST_NAME       LAST_NAME  --------------------
-------------------------
Shelli         Baida
Amit           Banda
Valli          Pataballa Ismael
Sciarra
```

3. Write a query to list the names (first and last) of those employees whose name have second alphabet 's' in their names.

```
SQL> select first_name, last_name from employees
2   where first_name like '_s%';

FIRST_NAME         LAST_NAME
-------------------- -------------------------- Ismael
Sciarra
```

4. Write a query to list the names (first and last) of those employees whose first name has only five characters.

```
SQL> select first_name, last_name from employees
2    where length(first_name) = 5;

FIRST_NAME          LAST_NAME
-------------------- ------------------------- Ellen
Abel
Mozhe           Atkinson
David           Austin
Sarah           Bell
David           Bernstein
Laura           Bissot
Kelly           Chung
Karen           Colmenares
Julia           Dellinger
Bruce           Ernst
Kevin           Feeney


FIRST_NAME          LAST_NAME
------------------- ------------------------ Nancy
Greenberg
Peter           Hall
Vance           Jones
Payam            Kaufling  Neena
Kochhar
James           Landry
David           Lee
Diana           Lorentz
Jason           Mallin
James            Marlow
Susan            Mavris


FIRST_NAME          LAST_NAME
------------------- ------------------------ Allan
McEwen
Irene           Mikkilineni
Kevin            Mourgos
Julia           Nayer
Karen            Partners
Valli           Pataballa
Hazel            Philtanker
Sigal            Tobias
Peter            Tucker
```

Peter Vargas
Clara Vishney

FIRST_NAME LAST_NAME ----------
---------- ------------------------ Alana

Walsh
Eleni Zlotkey

35 rows selected.

5. Write a query to list the names (first and last) of those employees whose first name has only five characters and starts with 'A'
   SQL> select first_name, last_name from employees
   2 where first_name like 'A%' and length (first_name) = 5;

   FIRST_NAME LAST_NAME
   -------------------- ------------------------ Allan
   McEwen
   Alana Walsh

6. Write a query to list the names (first and last) of those employees whose first name has only five characters and last name have third alphabet 's'.

   SQL> select first_name,last_name from employees
   2 where length (first_name) = 5 and last_name like '__s%';

   FIRST_NAME LAST_NAME
   -------------------- ------------------------ David Austin
   Laura Bissot
   Clara Vishney

7. Write a query to list the names (first and last) of the employees whose first name has only five characters and starting with 'S' and ending with 'n'.

   SQL> select first_name,last_name from employees
   2 where length (first_name) = 5 and first_name like 'S%n';

   FIRST_NAME LAST_NAME

-------------------- ------------------------ Susan

Mavris

8. Write a query to list the names (first and last), hire date of those employees who joined in the month of which second character is 'u'.

SQL> select first_name, last_name, hire_date from employees
2 where to_char(hire_date, 'MON') like '_U%';

FIRST_NAME	LAST_NAME	HIRE_DATE
		Steven
King	17-JUN-03	
David	Austin	25-JUN-05
Nancy	Greenberg	17-AUG-02
Daniel	Faviet	16-AUG-02
Sigal	Tobias	24-JUL-05
Karen	Colmenares	10-AUG-07
Matthew	Weiss	18-JUL-04
Julia	Nayer	16-JUL-05
Laura	Bissot	20-AUG-05
Jason	Mallin	14-JUN-04
Michael	Rogers	26-AUG-06

FIRST_NAME	LAST_NAME	HIRE_DATE
Renske	Ladwig	14-JUL-03
Peter	Vargas	09-JUL-06
Peter	Hall	20-AUG-05
Allan	McEwen	01-AUG-04
Martha	Sullivan	21-JUN-07
Julia	Dellinger	24-JUN-06
Kelly	Chung	14-JUN-05
Jennifer	Dilly	13-AUG-05
Timothy	Gates	11-JUL-06
Samuel	McCain	01-JUL-06
Donald	OConnell	21-JUN-07

FIRST_NAME	LAST_NAME	HIRE_DATE
		Pat Fay
17-AUG-05		
Susan	Mavris	07-JUN-02

Hermann	Baer	07-JUN-02
Shelley	Higgins	07-JUN-02
William	Gietz	07-JUN-02

27 rows selected.

9. Write a query to list the names (first and last), salary of those employees whose salary is four digit number ending with Zero.

```
SQL> select first_name,last_name,salary from employees
  2  where length (salary) = 4 and salary like '%0';
```

FIRST_NAME	LAST_NAME	SALARY
--------------------	-------------------------	----------- Alexander
Hunold		9000
Bruce	Ernst	6000
David	Austin	4800
Valli	Pataballa	4800
Diana	Lorentz	4200
Daniel	Faviet	9000
John	Chen	8200
Ismael	Sciarra	7700
Jose Manuel	Urman	7800
Luis	Popp	6900
Alexander	Khoo	3100

FIRST_NAME	LAST_NAME	SALARY
--------------------	-------------------------	----------- Shelli	Baida
2900		
Sigal	Tobias	2800
Guy	Himuro	2600
Karen	Colmenares	2500
Matthew	Weiss	8000
Adam	Fripp	8200
Payam	Kaufling	7900
Shanta	Vollman	6500
Kevin	Mourgos	5800
Julia	Nayer	3200
Irene	Mikkilineni	2700

FIRST_NAME	LAST_NAME	SALARY

-------------------- ------------------------ ---------- James   Landry
2400
Steven   Markle   2200
Laura   Bissot   3300
Mozhe   Atkinson   2800
James   Marlow   2500
TJ   Olson   2100
Jason   Mallin   3300
Michael   Rogers   2900
Ki   Gee   2400
Hazel   Philtanker   2200
Renske   Ladwig   3600

FIRST_NAME   LAST_NAME   SALARY
-------------------- ------------------------ ---------- Stephen   Stiles
3200
John   Seo   2700
Joshua   Patel   2500
Trenna   Rajs   3500
Curtis   Davies   3100
Randall   Matos   2600
Peter   Vargas   2500
David   Bernstein   9500
Peter   Hall   9000
Christopher   Olsen   8000
Nanette   Cambrault   7500

FIRST_NAME   LAST_NAME   SALARY
-------------------- ------------------------ ---------- Oliver   Tuvault
7000
Patrick   Sully   9500
Allan   McEwen   9000
Lindsey   Smith   8000
Louise   Doran   7500
Sarath   Sewall   7000
Danielle   Greene   9500
Mattea   Marvins   7200
David   Lee   6800
Sundar   Ande   6400
Amit   Banda   6200

FIRST_NAME   LAST_NAME   SALARY
-------------------- ------------------------ ---------- Tayler   Fox
9600

```
William        Smith                7400
Elizabeth       Bates                7300
Sundita         Kumar                6100 Alyssa          Hutton
8800
Jonathon         Taylor              8600
Jack            Livingston           8400
Kimberely        Grant               7000
Charles          Johnson             6200
Winston          Taylor              3200
Jean            Fleaur               3100

FIRST_NAME      LAST_NAME            SALARY
-------------------- ------------------------ ---------- Martha          Sullivan
2500
Girard          Geoni                2800
Nandita          Sarchand            4200
Alexis          Bull                4100
Julia           Dellinger            3400
Anthony          Cabrio              3000
Kelly           Chung                3800
Jennifer        Dilly                3600
Timothy          Gates               2900
Randall          Perkins             2500
Sarah           Bell                4000
FIRST_NAME      LAST_NAME            SALARY
-------------------- ------------------------ ---------- Britney          Everett
3900
Samuel          McCain               3200
Vance           Jones                2800
Alana           Walsh                3100
Kevin           Feeney               3000
Donald           OConnell            2600
Douglas          Grant               2600
Jennifer         Whalen              4400
Pat            Fay                6000
Susan           Mavris               6500
William          Gietz               8300   88
rows selected.
```

10. Write a query to list the names (first and last), salary of those employees whose names having a character set 'll' together.

```
SQL> select first_name, last_name, salary from employees
  2  where first_name like '%ll%';

FIRST_NAME          LAST_NAME                SALARY
-------------------- ------------------------ ---------- Valli          Pataballa
4800
Shelli          Baida               2900
Randall         Matos               2600
Allan           McEwen              9000
Danielle        Greene              9500
William         Smith               7400
Ellen           Abel               11000
Kelly           Chung               3800
Randall         Perkins             2500
Shelley         Higgins            12008
William         Gietz               8300   11
rows selected.
```

11. Write a query to list first_name, last_name of employees with the pattern 'l_x' in their first name.

```
SQL> select first_name, last_name from employees
2  where first_name like '%l_x%'
3  order by first_name;

FIRST_NAME          LAST_NAME
-------------------- ------------------------ Alexander
Hunold
Alexander       Khoo
Alexis          Bull
```