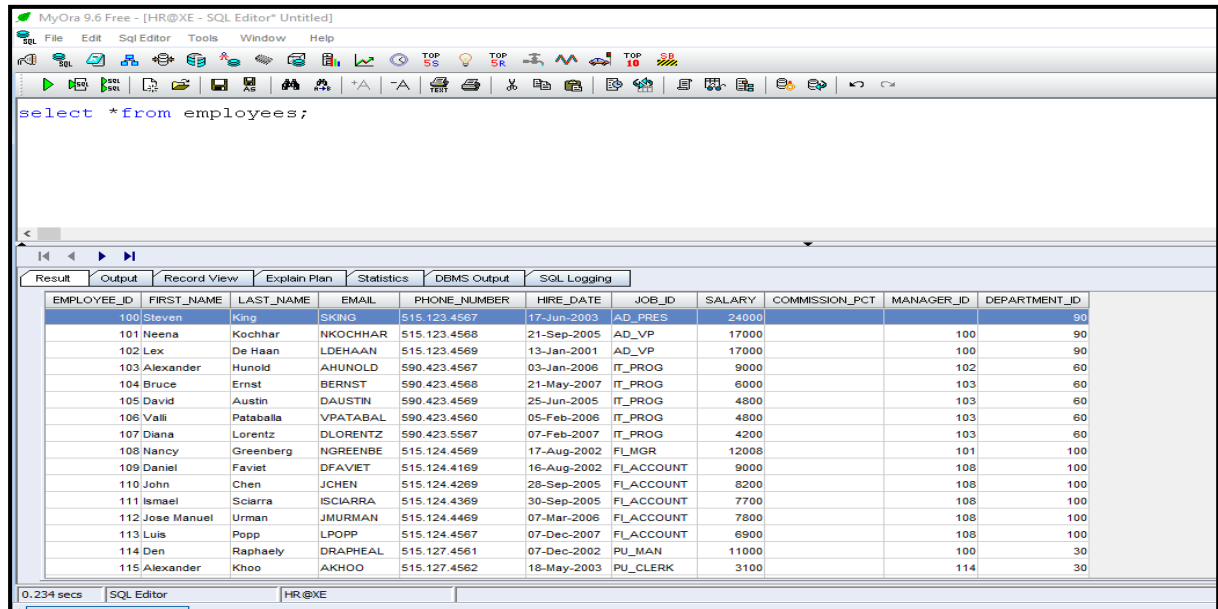


ASSIGNMENT 02

PRN: 220950125020

Que. Create a query to display all the data from employee table.



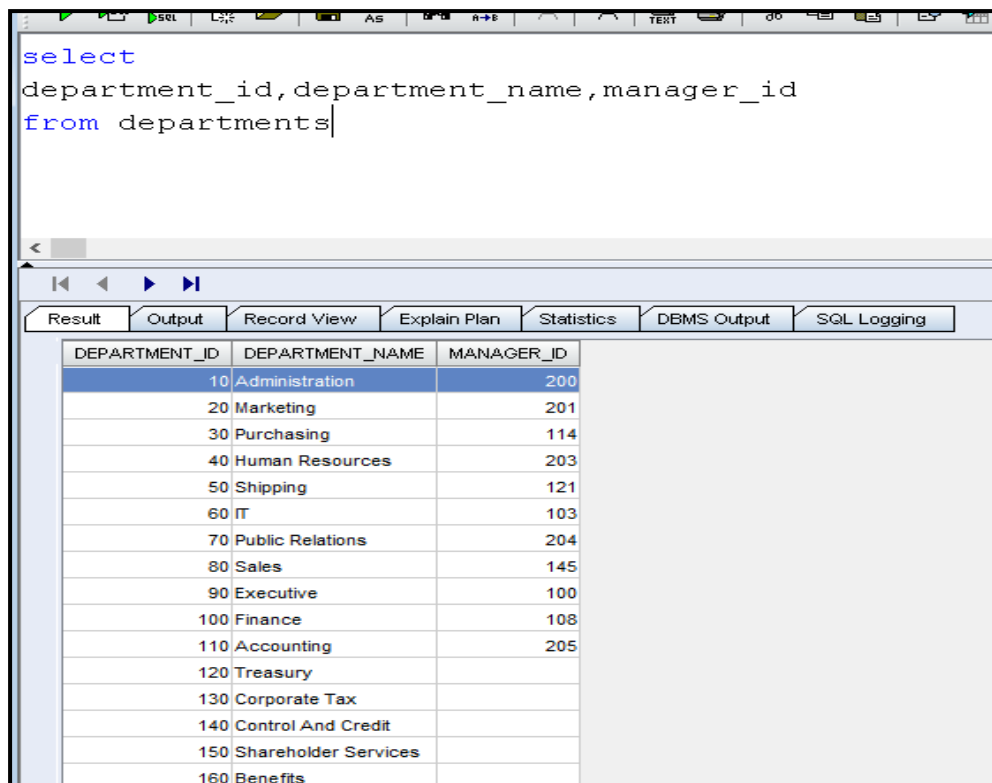
The screenshot shows the MyOra 9.6 Free SQL Editor interface. The query editor contains the following SQL statement:

```
select * from employees;
```

The results pane displays the following data:

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-2003	AD_PRES	24000			90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	21-Sep-2005	AD_VP	17000		100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	13-Jan-2001	AD_VP	17000		100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	03-Jan-2006	IT_PROG	9000		102	60
104	Bruce	Ernst	BERNST	590.423.4568	21-May-2007	IT_PROG	6000		103	60
105	David	Austin	DAUSTIN	590.423.4569	25-Jun-2005	IT_PROG	4800		103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	05-Feb-2006	IT_PROG	4800		103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	07-Feb-2007	IT_PROG	4200		103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	17-Aug-2002	FI_MGR	12008		101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	16-Aug-2002	FI_ACCOUNT	9000		108	100
110	John	Chen	JCHEN	515.124.4269	28-Sep-2005	FI_ACCOUNT	8200		108	100
111	Ismail	Sciarra	ISCIARRA	515.124.4369	30-Sep-2005	FI_ACCOUNT	7700		108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	07-Mar-2006	FI_ACCOUNT	7800		108	100
113	Luis	Popp	LPOPP	515.124.4567	07-Dec-2007	FI_ACCOUNT	6900		108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	07-Dec-2002	PU_MAN	11000		100	30
115	Alexander	Khoo	AKHOO	515.127.4562	18-May-2003	PU_CLERK	3100		114	30

Que. Create a query to display the department number, department name, and manager number



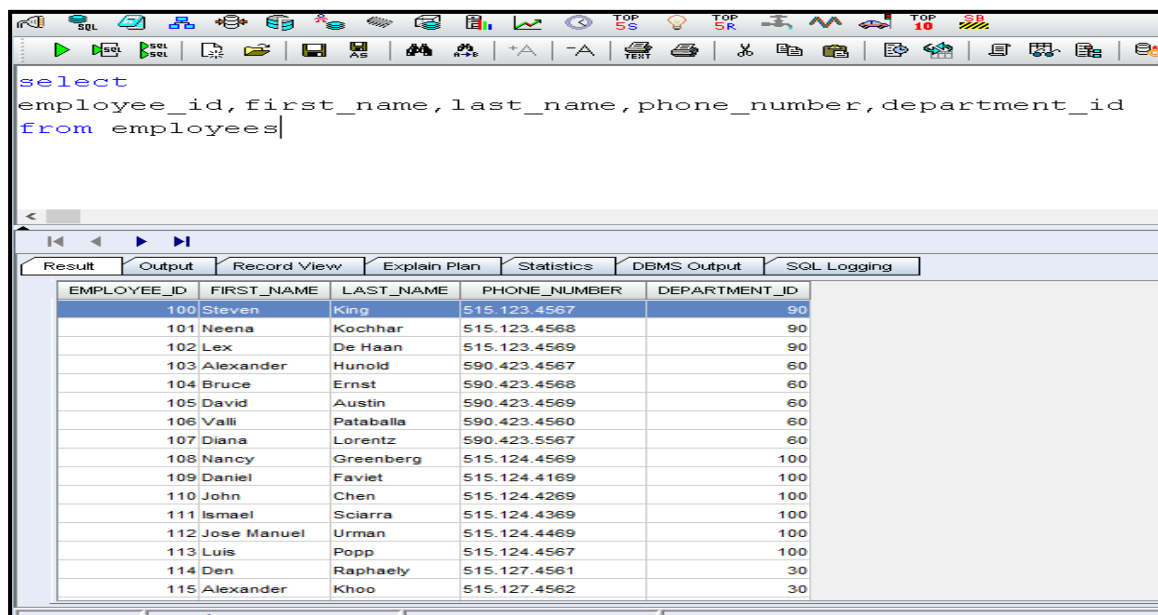
The screenshot shows the MyOra 9.6 Free SQL Editor interface. The query editor contains the following SQL statement:

```
select  
department_id, department_name, manager_id  
from departments
```

The results pane displays the following data:

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID
10	Administration	200
20	Marketing	201
30	Purchasing	114
40	Human Resources	203
50	Shipping	121
60	IT	103
70	Public Relations	204
80	Sales	145
90	Executive	100
100	Finance	108
110	Accounting	205
120	Treasury	
130	Corporate Tax	
140	Control And Credit	
150	Shareholder Services	
160	Benefits	

Que. Create a query to display the employee number, first name, last name, phone number and department number



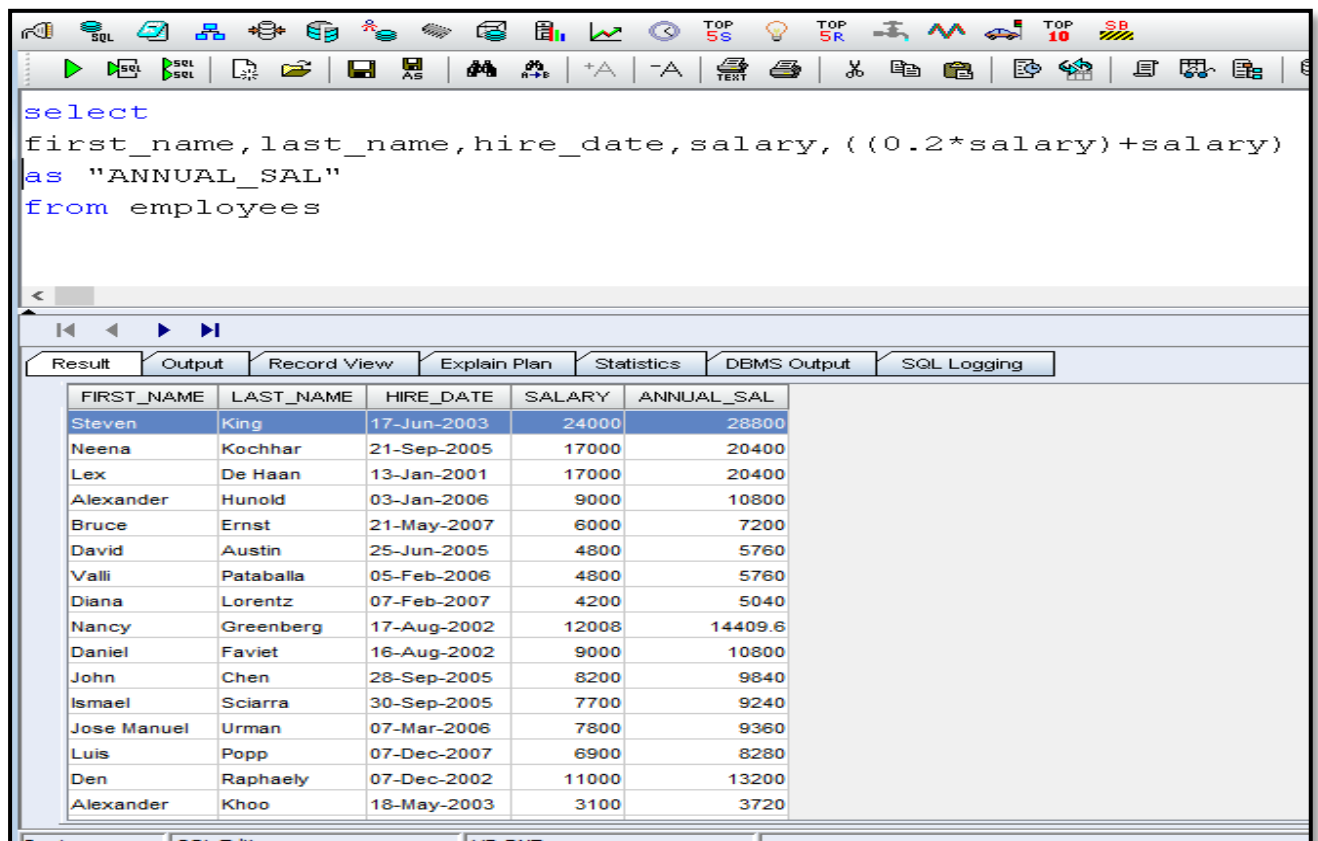
The screenshot shows the SQL Developer interface with a query window containing the following SQL statement:

```
select
employee_id,first_name,last_name,phone_number,department_id
from employees|
```

The Results pane displays the output of the query as a table with the following data:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	PHONE_NUMBER	DEPARTMENT_ID
100	Steven	King	515.123.4567	90
101	Neena	Kochhar	515.123.4568	90
102	Lex	De Haan	515.123.4569	90
103	Alexander	Hunold	590.423.4567	60
104	Bruce	Ernst	590.423.4568	60
105	David	Austin	590.423.4569	60
106	Valli	Pataballa	590.423.4560	60
107	Diana	Lorentz	590.423.5567	60
108	Nancy	Greenberg	515.124.4569	100
109	Daniel	Faviet	515.124.4169	100
110	John	Chen	515.124.4269	100
111	Ismael	Sciarra	515.124.4369	100
112	Jose Manuel	Urman	515.124.4469	100
113	Luis	Popp	515.124.4567	100
114	Den	Raphaely	515.127.4561	30
115	Alexander	Khoo	515.127.4562	30

Que. Create a query to display the first name, last name, hire date, salary, and salary after a raise of 20%. Name the last column (salary after a raise) heading as "ANNUAL_SAL"



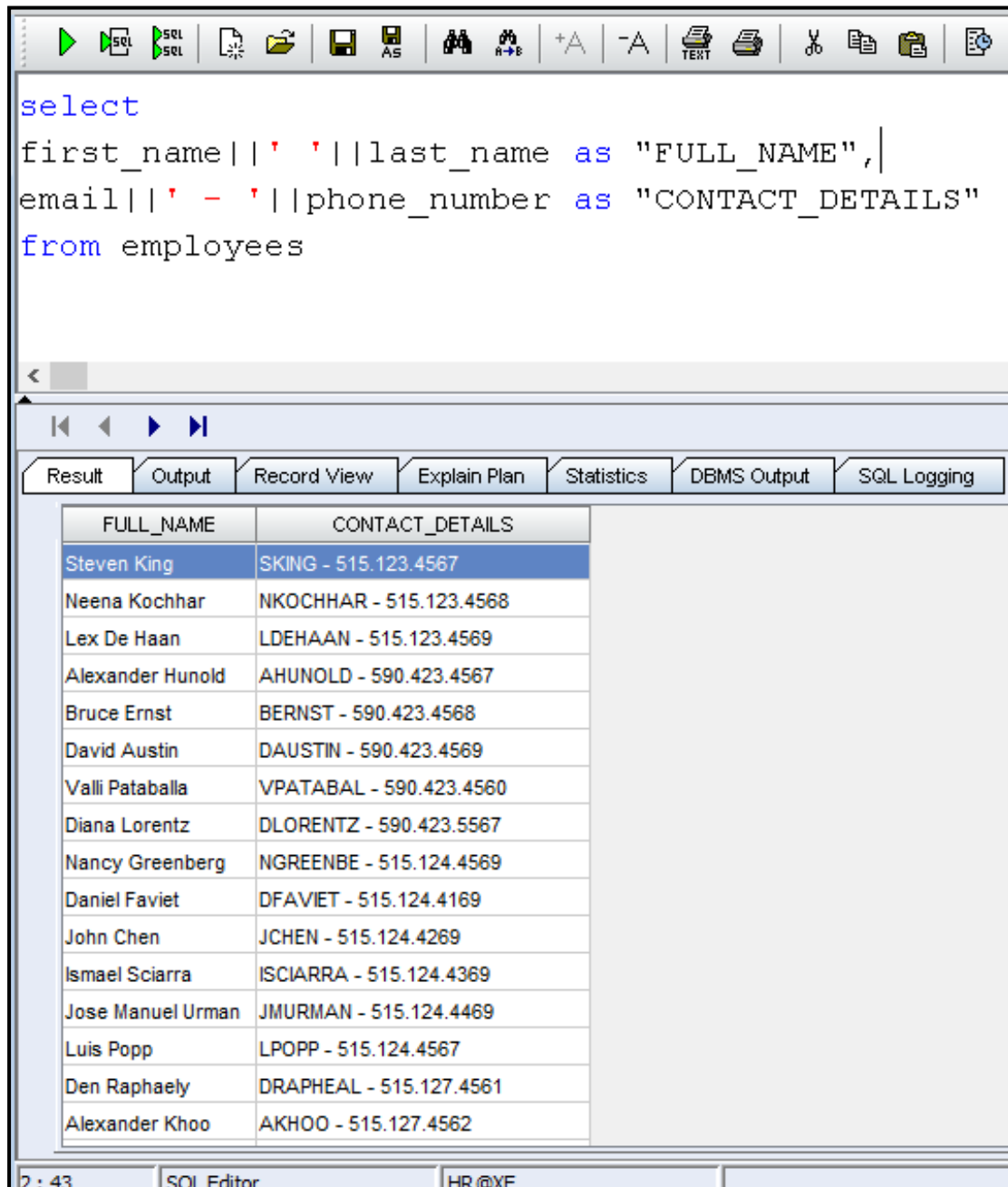
The screenshot shows the SQL Developer interface with a query window containing the following SQL statement:

```
select
first_name,last_name,hire_date,salary,((0.2*salary)+salary)
as "ANNUAL_SAL"
from employees
```

The Results pane displays the output of the query as a table with the following data:

FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY	ANNUAL_SAL
Steven	King	17-Jun-2003	24000	28800
Neena	Kochhar	21-Sep-2005	17000	20400
Lex	De Haan	13-Jan-2001	17000	20400
Alexander	Hunold	03-Jan-2006	9000	10800
Bruce	Ernst	21-May-2007	6000	7200
David	Austin	25-Jun-2005	4800	5760
Valli	Pataballa	05-Feb-2006	4800	5760
Diana	Lorentz	07-Feb-2007	4200	5040
Nancy	Greenberg	17-Aug-2002	12008	14409.6
Daniel	Faviet	16-Aug-2002	9000	10800
John	Chen	28-Sep-2005	8200	9840
Ismael	Sciarra	30-Sep-2005	7700	9240
Jose Manuel	Urman	07-Mar-2006	7800	9360
Luis	Popp	07-Dec-2007	6900	8280
Den	Raphaely	07-Dec-2002	11000	13200
Alexander	Khoo	18-May-2003	3100	3720

Que. Create a query to display the last name concatenated with the first name, separated by space, and the telephone number concatenated with the email address, separated by hyphen. Name the column headings "FULL_NAME" and "CONTACT_DETAILS" respectively



The screenshot shows an SQL Editor window with a toolbar at the top. The query editor contains the following SQL code:

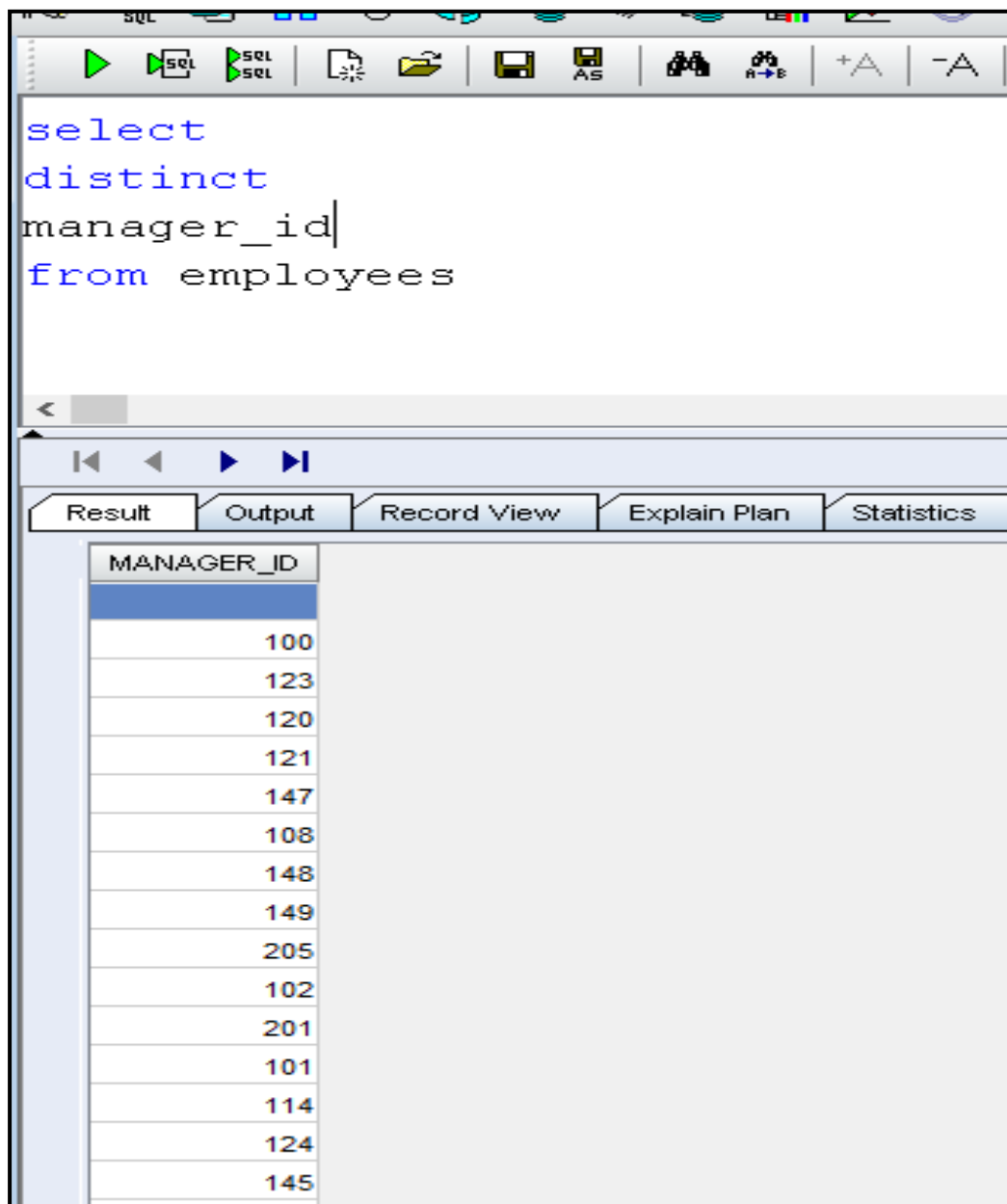
```
select  
first_name||' '||last_name as "FULL_NAME",  
email||' - '||phone_number as "CONTACT_DETAILS"  
from employees
```

Below the query editor, there is a tabbed interface with the following tabs: Result, Output, Record View, Explain Plan, Statistics, DBMS Output, and SQL Logging. The "Result" tab is selected, displaying a table with two columns: FULL_NAME and CONTACT_DETAILS. The table contains 18 rows of employee data.

FULL_NAME	CONTACT_DETAILS
Steven King	SKING - 515.123.4567
Neena Kochhar	NKOCHHAR - 515.123.4568
Lex De Haan	LDEHAAN - 515.123.4569
Alexander Hunold	AHUNOLD - 590.423.4567
Bruce Ernst	BERNST - 590.423.4568
David Austin	DAUSTIN - 590.423.4569
Valli Pataballa	VPATABAL - 590.423.4560
Diana Lorentz	DLORENTZ - 590.423.5567
Nancy Greenberg	NGREENBE - 515.124.4569
Daniel Faviet	DFAVIET - 515.124.4169
John Chen	JCHEN - 515.124.4269
Ismael Sciarra	ISCIARRA - 515.124.4369
Jose Manuel Urman	JMURMAN - 515.124.4469
Luis Popp	LPOPP - 515.124.4567
Den Raphaely	DRAPHEAL - 515.127.4561
Alexander Khoo	AKHOO - 515.127.4562

At the bottom of the window, the status bar shows "2 : 43", "SQL Editor", and "HR@XE".

Que. Create a query to display the unique manager numbers from Employees table.



The screenshot shows a SQL query editor window. The query entered is:

```
select  
distinct  
manager_id  
from employees
```

Below the query editor, there are tabs for "Result", "Output", "Record View", "Explain Plan", and "Statistics". The "Result" tab is selected, showing a table with the following data:

MANAGER_ID
100
123
120
121
147
108
148
149
205
102
201
101
114
124
145

Que. Create a query to display the last name concatenated with *job_id* column, separated by space. Name this column heading as "EMPLOYEE_AND_TITLE"

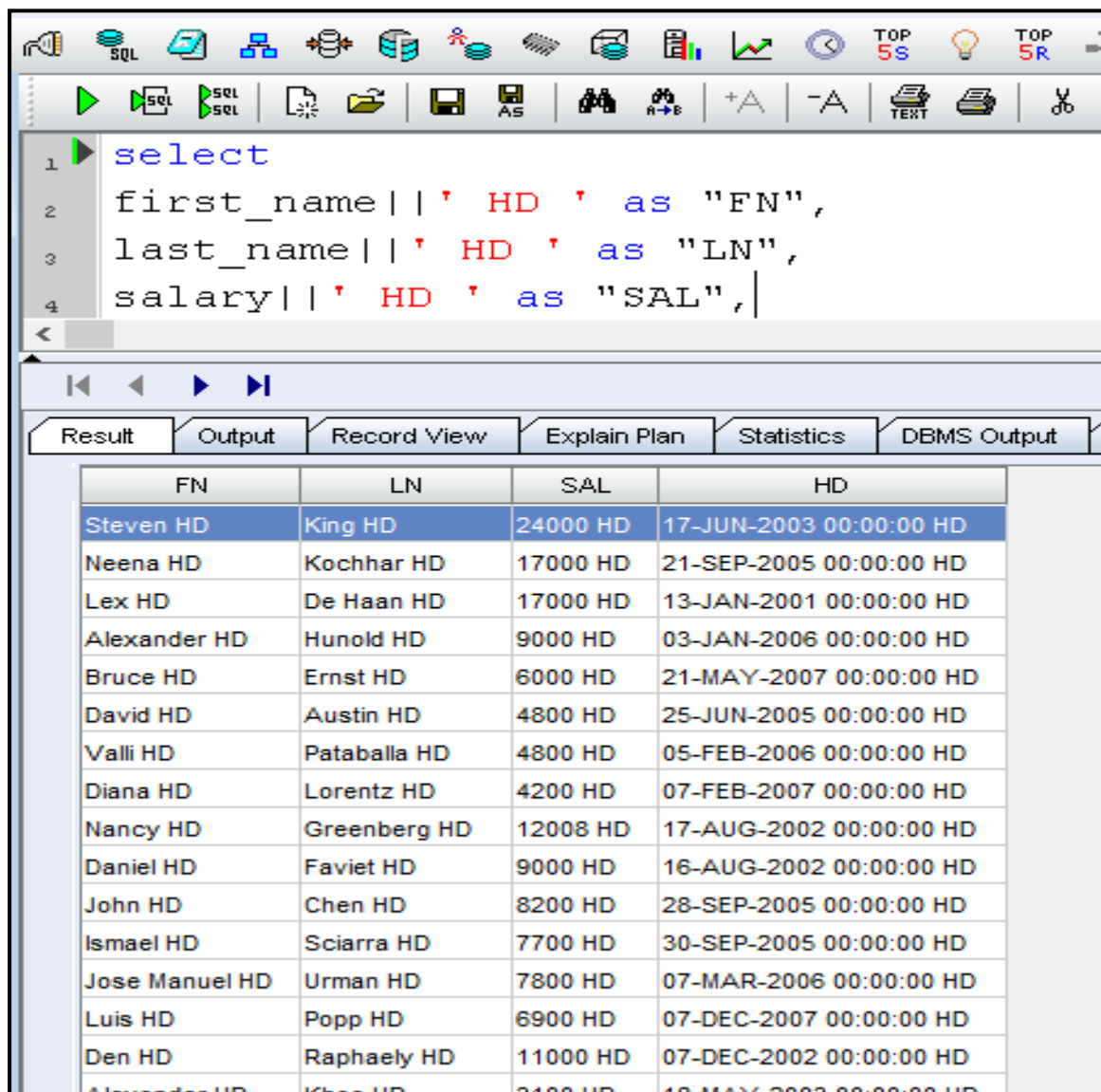
The screenshot shows a SQL query editor window with a toolbar at the top. The query text is as follows:

```
select  
last_name||' '||job_id as "EMPLOYEE_AND_TITLE"  
from employees
```

Below the query editor, there is a navigation bar with tabs: Result, Output, Record View, Explain Plan, Statistics, DBMS Output, and SQL Logging. The 'Result' tab is selected, displaying a table with the following data:

EMPLOYEE_AND_TITLE
Abel SA_REP
Ande SA_REP
Atkinson ST_CLERK
Austin IT_PROG
Baer PR_REP
Baida PU_CLERK
Banda SA_REP
Bates SA_REP
Bell SH_CLERK
Bernstein SA_REP
Bissot ST_CLERK
Bloom SA_REP
Bull SH_CLERK

Que. Create a query to display the first name, last name, salary, and hire date concatenated with the literal string "HD", separated by space. Name the column headings "FN", "LN", "SAL", and "HD" respectively



The screenshot shows an SQL IDE with a query editor at the top and a results grid below. The query editor contains the following SQL code:

```

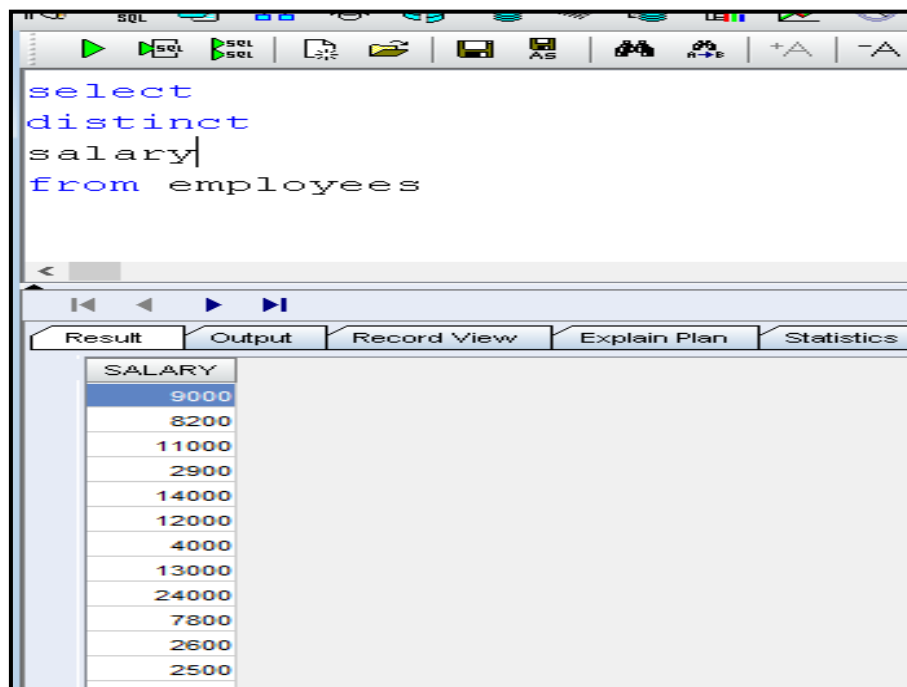
1 select
2 first_name || ' HD ' as "FN",
3 last_name || ' HD ' as "LN",
4 salary || ' HD ' as "SAL",

```

The results grid displays the output of the query, with columns labeled FN, LN, SAL, and HD. The data is as follows:

FN	LN	SAL	HD
Steven HD	King HD	24000 HD	17-JUN-2003 00:00:00 HD
Neena HD	Kochhar HD	17000 HD	21-SEP-2005 00:00:00 HD
Lex HD	De Haan HD	17000 HD	13-JAN-2001 00:00:00 HD
Alexander HD	Hunold HD	9000 HD	03-JAN-2006 00:00:00 HD
Bruce HD	Ernst HD	6000 HD	21-MAY-2007 00:00:00 HD
David HD	Austin HD	4800 HD	25-JUN-2005 00:00:00 HD
Valli HD	Pataballa HD	4800 HD	05-FEB-2006 00:00:00 HD
Diana HD	Lorentz HD	4200 HD	07-FEB-2007 00:00:00 HD
Nancy HD	Greenberg HD	12008 HD	17-AUG-2002 00:00:00 HD
Daniel HD	Faviet HD	9000 HD	16-AUG-2002 00:00:00 HD
John HD	Chen HD	8200 HD	28-SEP-2005 00:00:00 HD
Ismael HD	Sciarra HD	7700 HD	30-SEP-2005 00:00:00 HD
Jose Manuel HD	Urman HD	7800 HD	07-MAR-2006 00:00:00 HD
Luis HD	Popp HD	6900 HD	07-DEC-2007 00:00:00 HD
Den HD	Raphaely HD	11000 HD	07-DEC-2002 00:00:00 HD
Alexander HD	Khan HD	21000 HD	13-MAY-2002 00:00:00 HD

Que. Create a query to display the unique salaries of employees



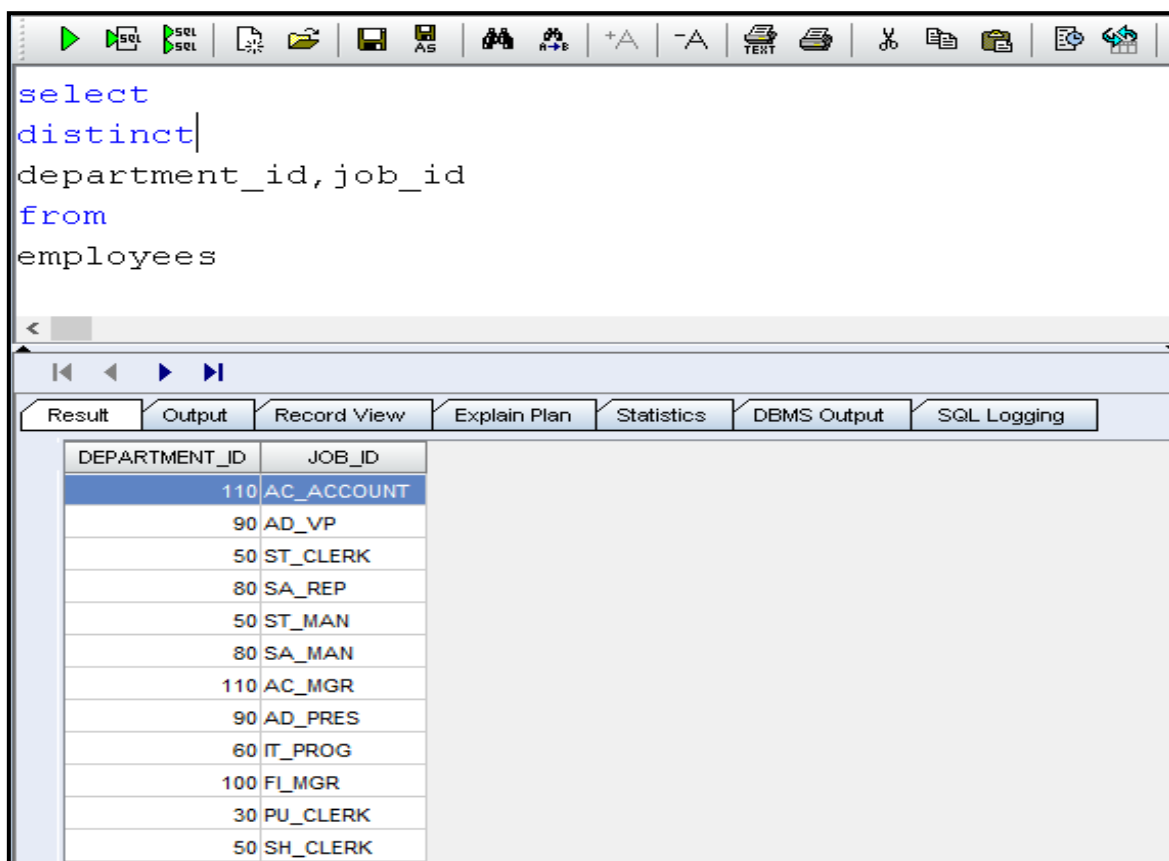
The screenshot shows the SQL Developer interface. The query editor contains the following SQL statement:

```
select
distinct
salary
from employees
```

The 'Result' tab is selected, displaying the output of the query. The output is a table with a single column named 'SALARY' containing 15 unique salary values.

SALARY
9000
8200
11000
2900
14000
12000
4000
13000
24000
7800
2600
2500

Que. Create a query to display the unique combination of values in department_id and job_id columns



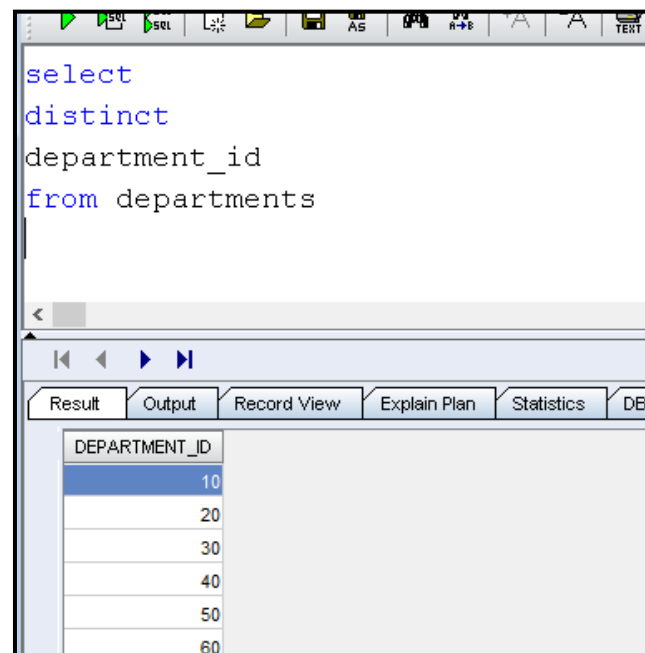
The screenshot shows the SQL Developer interface. The query editor contains the following SQL statement:

```
select
distinct
department_id, job_id
from
employees
```

The 'Result' tab is selected, displaying the output of the query. The output is a table with two columns: 'DEPARTMENT_ID' and 'JOB_ID', showing 15 unique combinations.

DEPARTMENT_ID	JOB_ID
110	AC_ACCOUNT
90	AD_VP
50	ST_CLERK
80	SA_REP
50	ST_MAN
80	SA_MAN
110	AC_MGR
90	AD_PRES
60	IT_PROG
100	FI_MGR
30	PU_CLERK
50	SH_CLERK

Que. Display unique Department number of employees



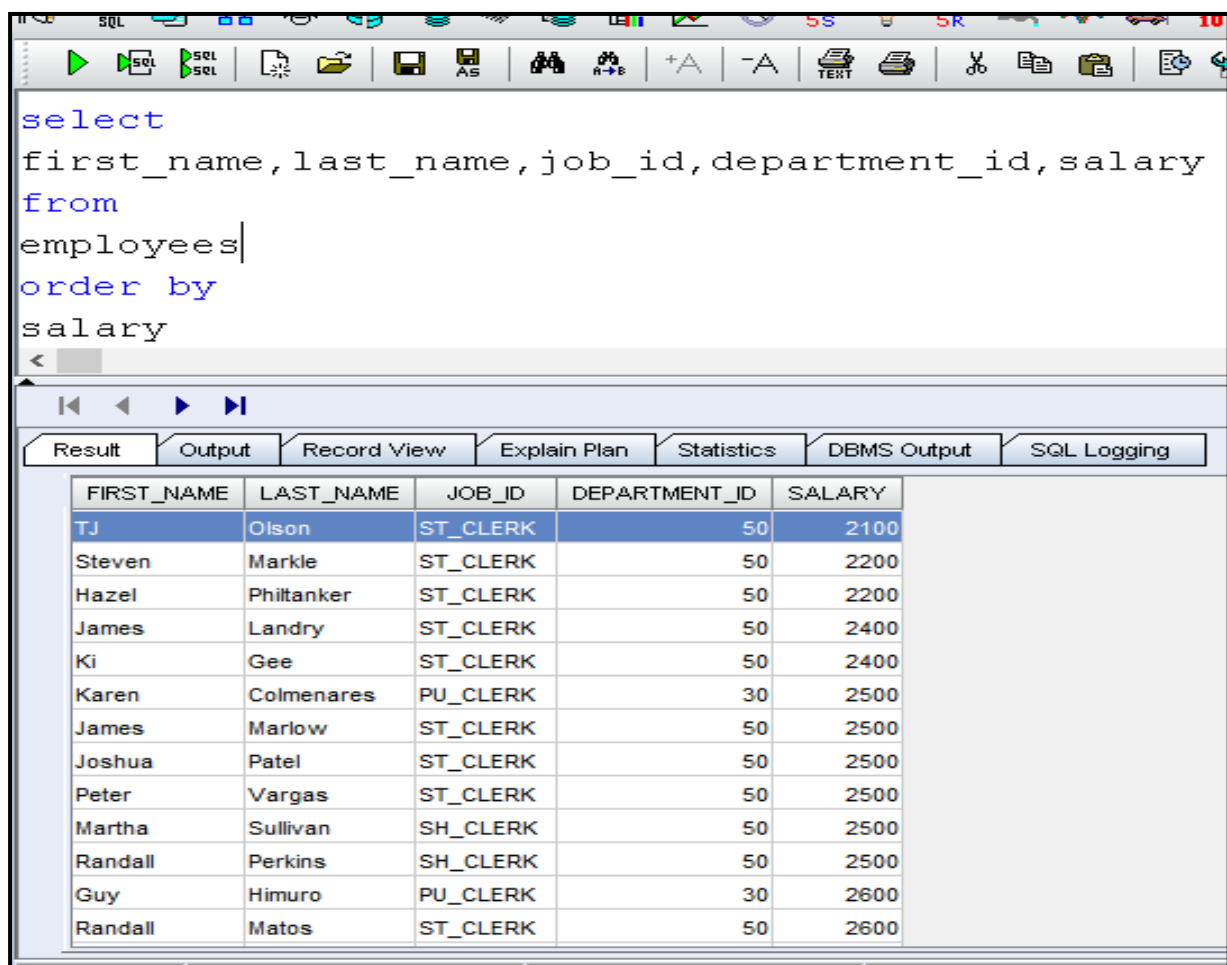
The screenshot shows the SQL Developer interface. The query editor contains the following SQL statement:

```
select
distinct
department_id
from departments
```

The 'Result' tab is selected, displaying the output of the query. The output is a single column named 'DEPARTMENT_ID' with the following values:

DEPARTMENT_ID
10
20
30
40
50
60

Que. List the details of the employees in ascending order of their salaries



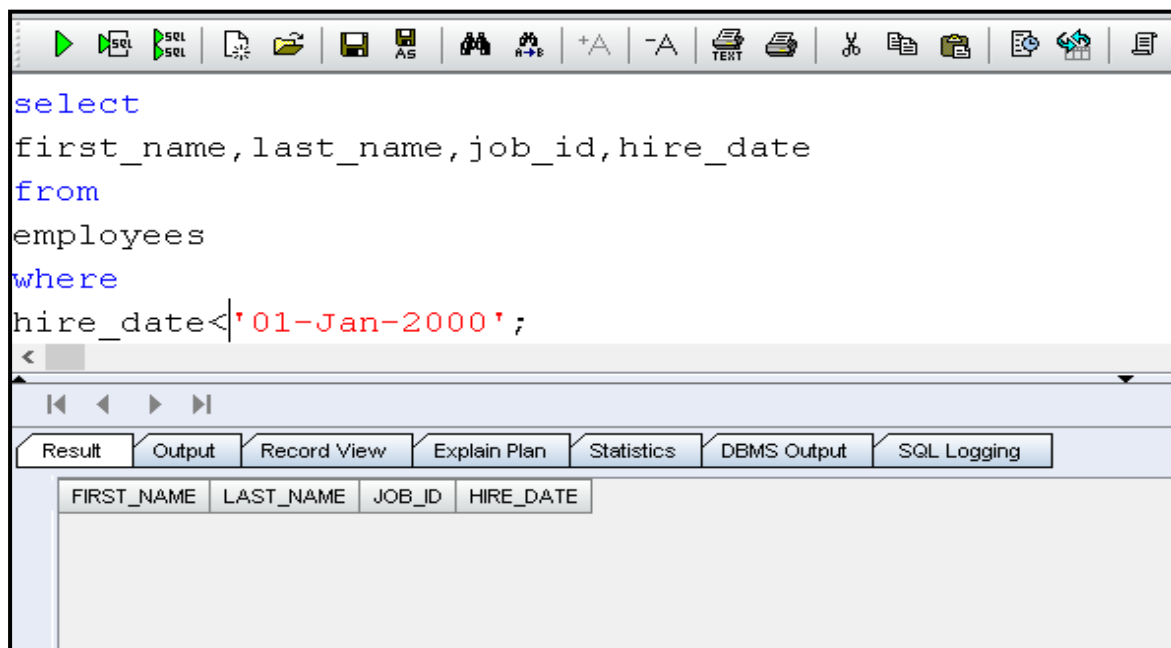
The screenshot shows the SQL Developer interface. The query editor contains the following SQL statement:

```
select
first_name, last_name, job_id, department_id, salary
from
employees
order by
salary
```

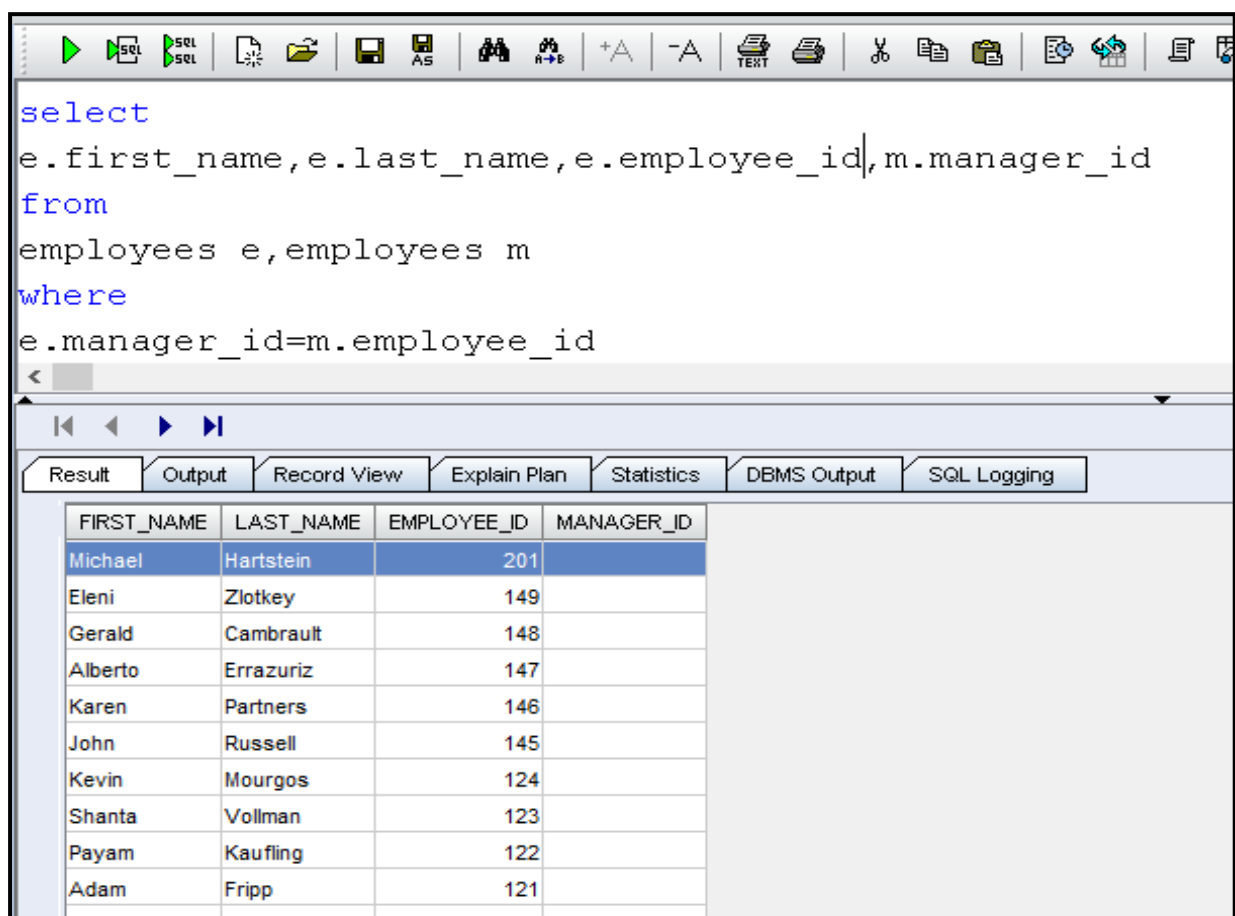
The 'Result' tab is selected, displaying the output of the query. The output is a table with the following columns: FIRST_NAME, LAST_NAME, JOB_ID, DEPARTMENT_ID, and SALARY. The data is sorted in ascending order of salary.

FIRST_NAME	LAST_NAME	JOB_ID	DEPARTMENT_ID	SALARY
TJ	Olson	ST_CLERK	50	2100
Steven	Markle	ST_CLERK	50	2200
Hazel	Philtanker	ST_CLERK	50	2200
James	Landry	ST_CLERK	50	2400
Ki	Gee	ST_CLERK	50	2400
Karen	Colmenares	PU_CLERK	30	2500
James	Marlow	ST_CLERK	50	2500
Joshua	Patel	ST_CLERK	50	2500
Peter	Vargas	ST_CLERK	50	2500
Martha	Sullivan	SH_CLERK	50	2500
Randall	Perkins	SH_CLERK	50	2500
Guy	Himuro	PU_CLERK	30	2600
Randall	Matos	ST_CLERK	50	2600

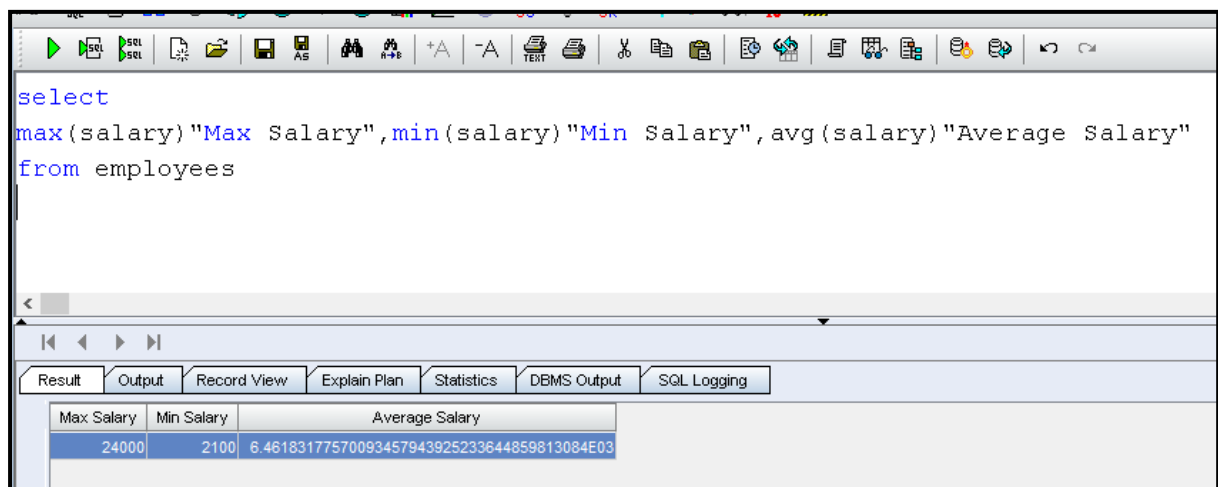
Que. List the employees who joined before 2000



Que. Write an SQL query to fetch all the Employees who are also managers.



Que. Write an SQL query to find the maximum, minimum, and average salary of the employees.



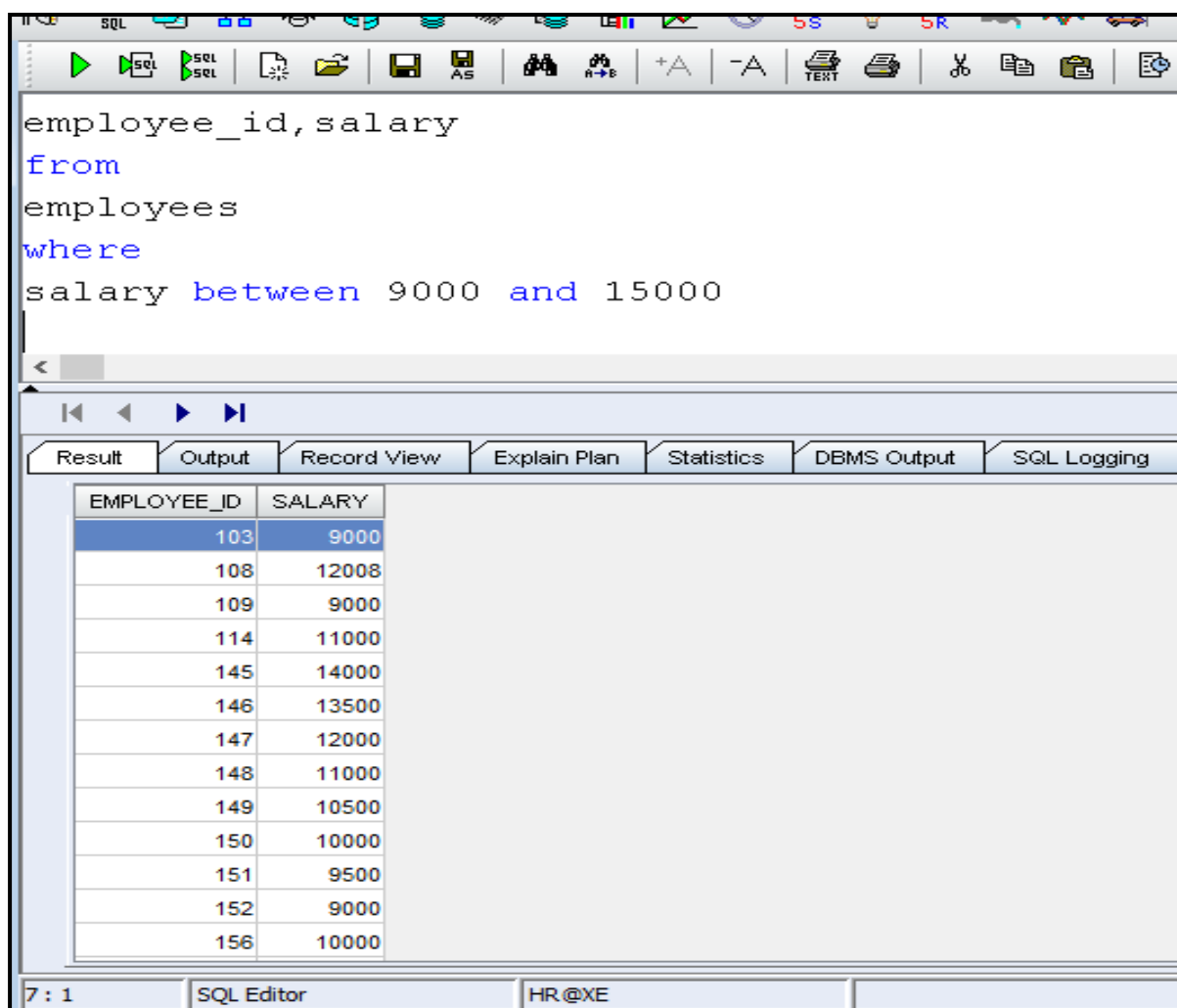
The screenshot shows the SQL Developer interface. The query editor contains the following SQL query:

```
select  
max(salary)"Max Salary",min(salary)"Min Salary",avg(salary)"Average Salary"  
from employees
```

The query is executed, and the results are displayed in the 'Result' tab. The results are as follows:

Max Salary	Min Salary	Average Salary
24000	2100	6.46183177570093457943925233644859813084E03

Que. Write an SQL query to find the employee id whosesalary lies in the range of 9000 and 15000



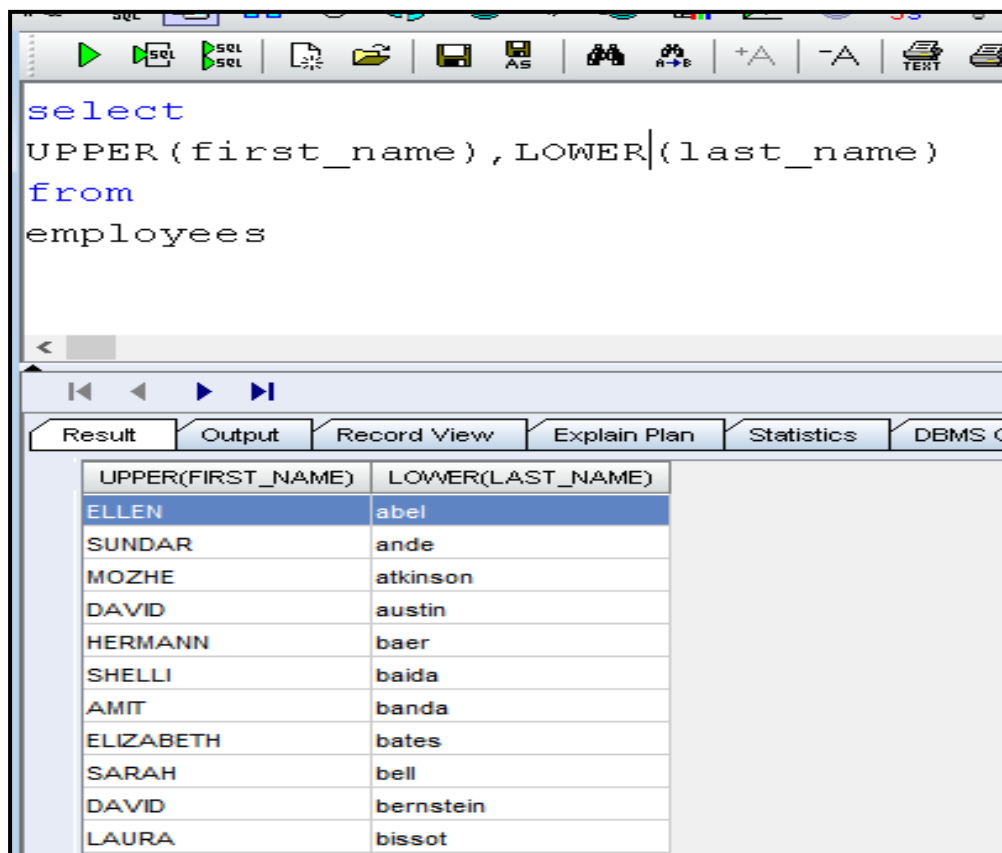
The screenshot shows the SQL Developer interface. The query editor contains the following SQL query:

```
employee_id,salary  
from  
employees  
where  
salary between 9000 and 15000
```

The query is executed, and the results are displayed in the 'Result' tab. The results are as follows:

EMPLOYEE_ID	SALARY
103	9000
108	12008
109	9000
114	11000
145	14000
146	13500
147	12000
148	11000
149	10500
150	10000
151	9500
152	9000
156	10000

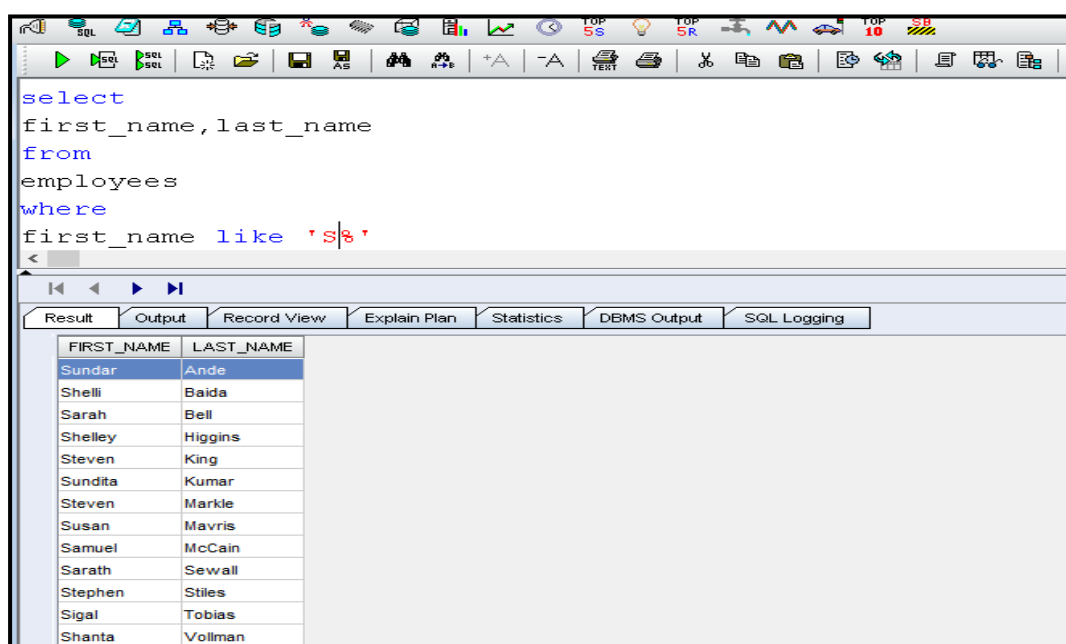
Que. Write an SQL query to uppercase the firstname of the employee and lowercase the lastname.



The screenshot shows an SQL IDE window with a query editor at the top and a results grid below. The query is: `select UPPER(first_name), LOWER(last_name) from employees`. The results grid has two columns: `UPPER(FIRST_NAME)` and `LOWER(LAST_NAME)`. The data is as follows:

UPPER(FIRST_NAME)	LOWER(LAST_NAME)
ELLEN	abel
SUNDAR	ande
MOZHE	atkinson
DAVID	austin
HERMANN	baer
SHELLI	baida
AMIT	banda
ELIZABETH	bates
SARAH	bell
DAVID	bernstein
LAURA	bissot

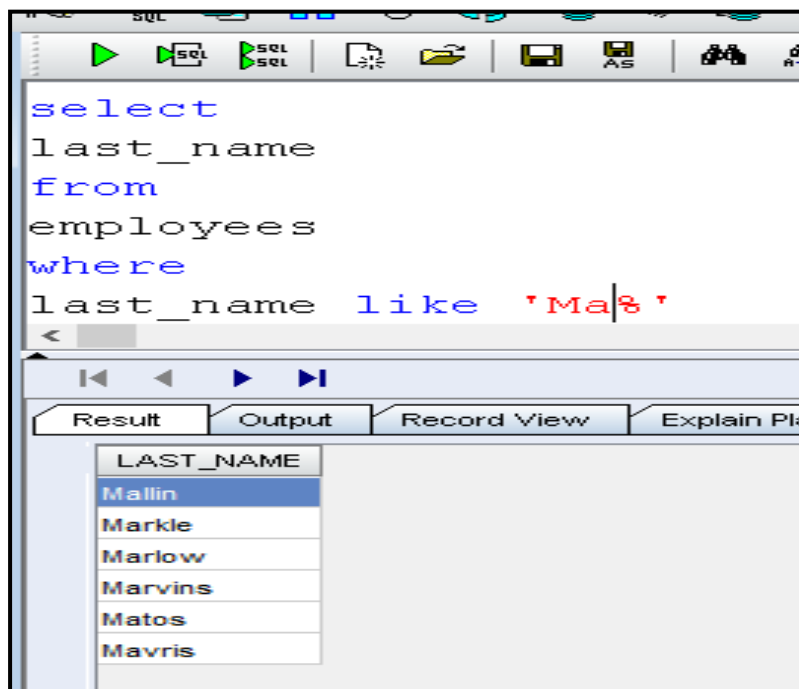
Que. Write a query to find the names of employees that begin with 'S'



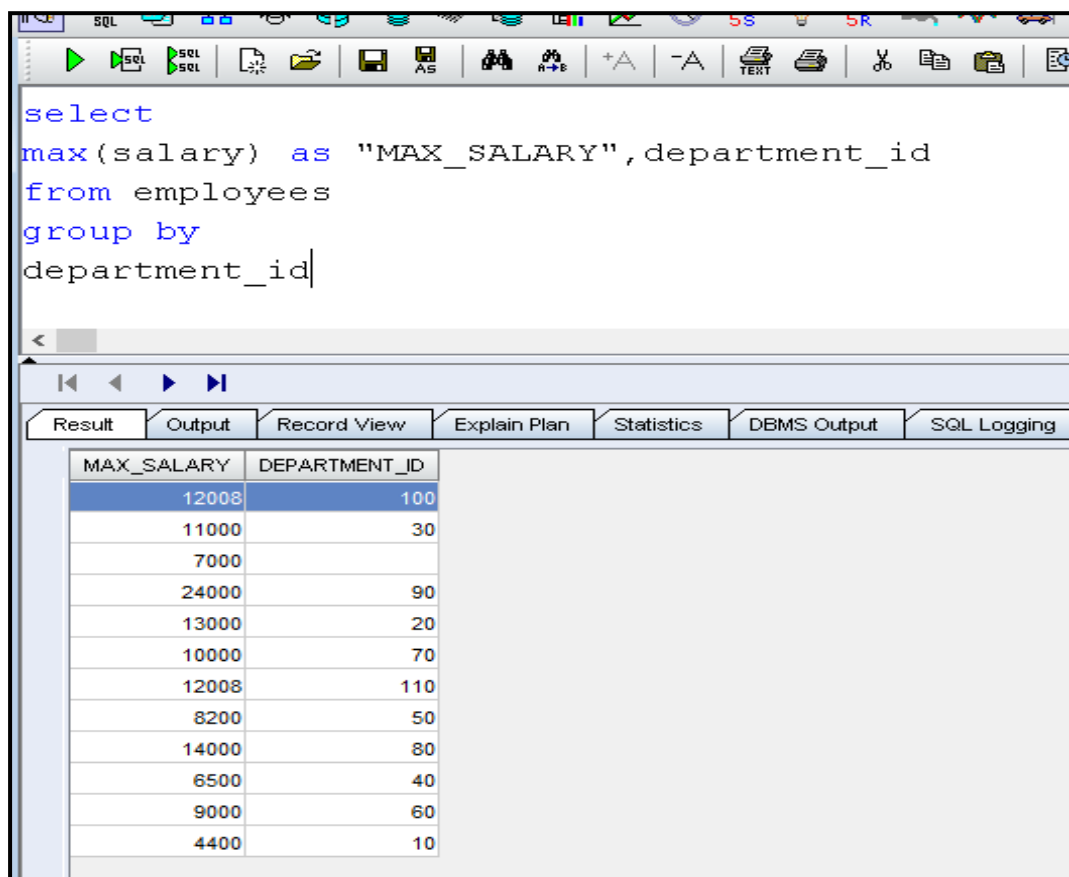
The screenshot shows an SQL IDE window with a query editor at the top and a results grid below. The query is: `select first_name, last_name from employees where first_name like 'S%'`. The results grid has two columns: `FIRST_NAME` and `LAST_NAME`. The data is as follows:

FIRST_NAME	LAST_NAME
Sundar	Ande
Shelli	Baida
Sarah	Bell
Shelley	Higgins
Steven	King
Sundita	Kumar
Steven	Markle
Susan	Mavris
Samuel	McCain
Sarath	Sewall
Stephen	Stiles
Sigal	Tobias
Shanta	Vollman

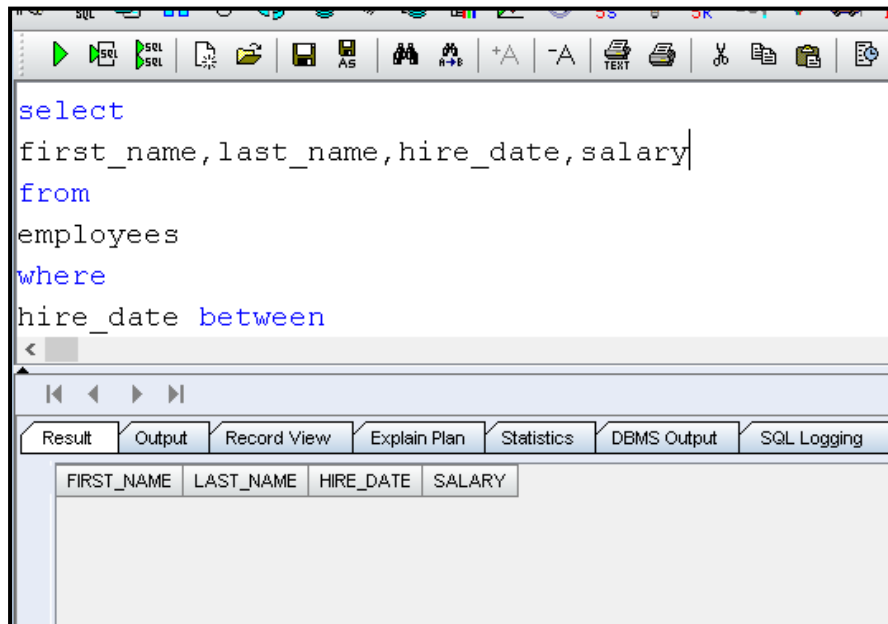
Que. select employees whose last names start with "Ma"



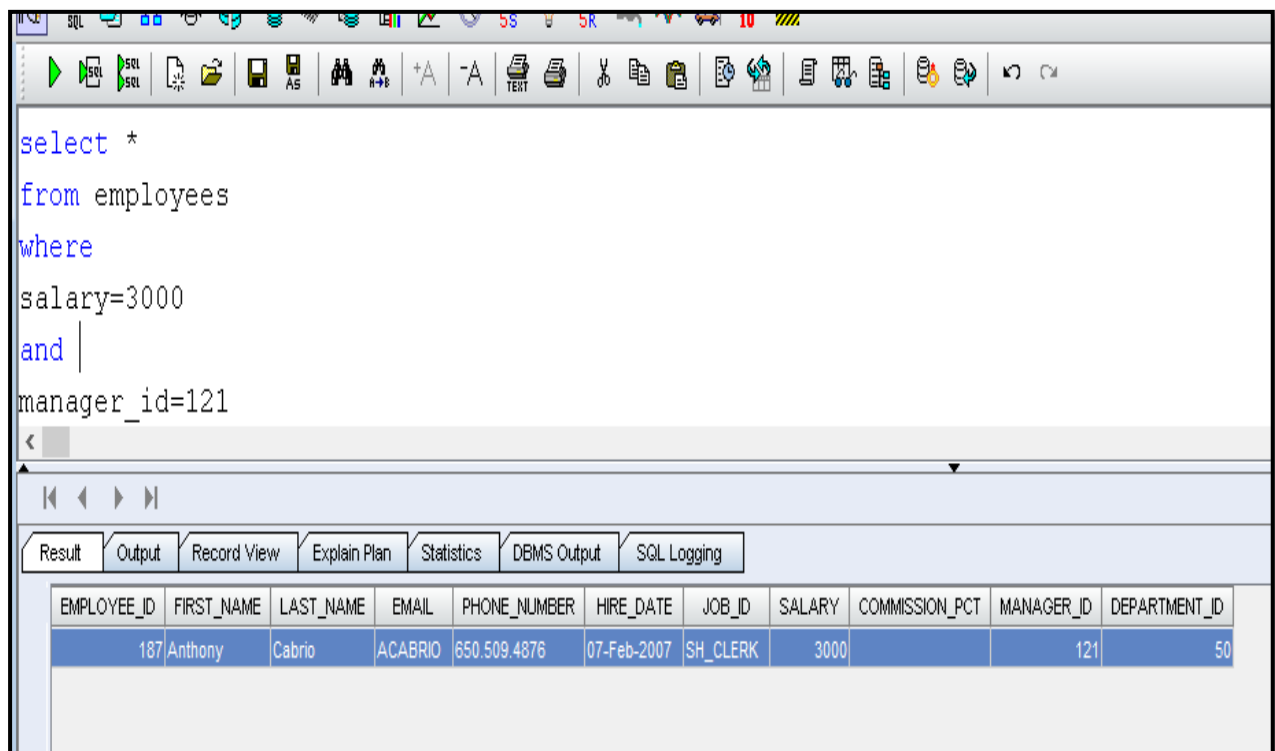
Que. What is SQL Query to find maximum salary of each department?



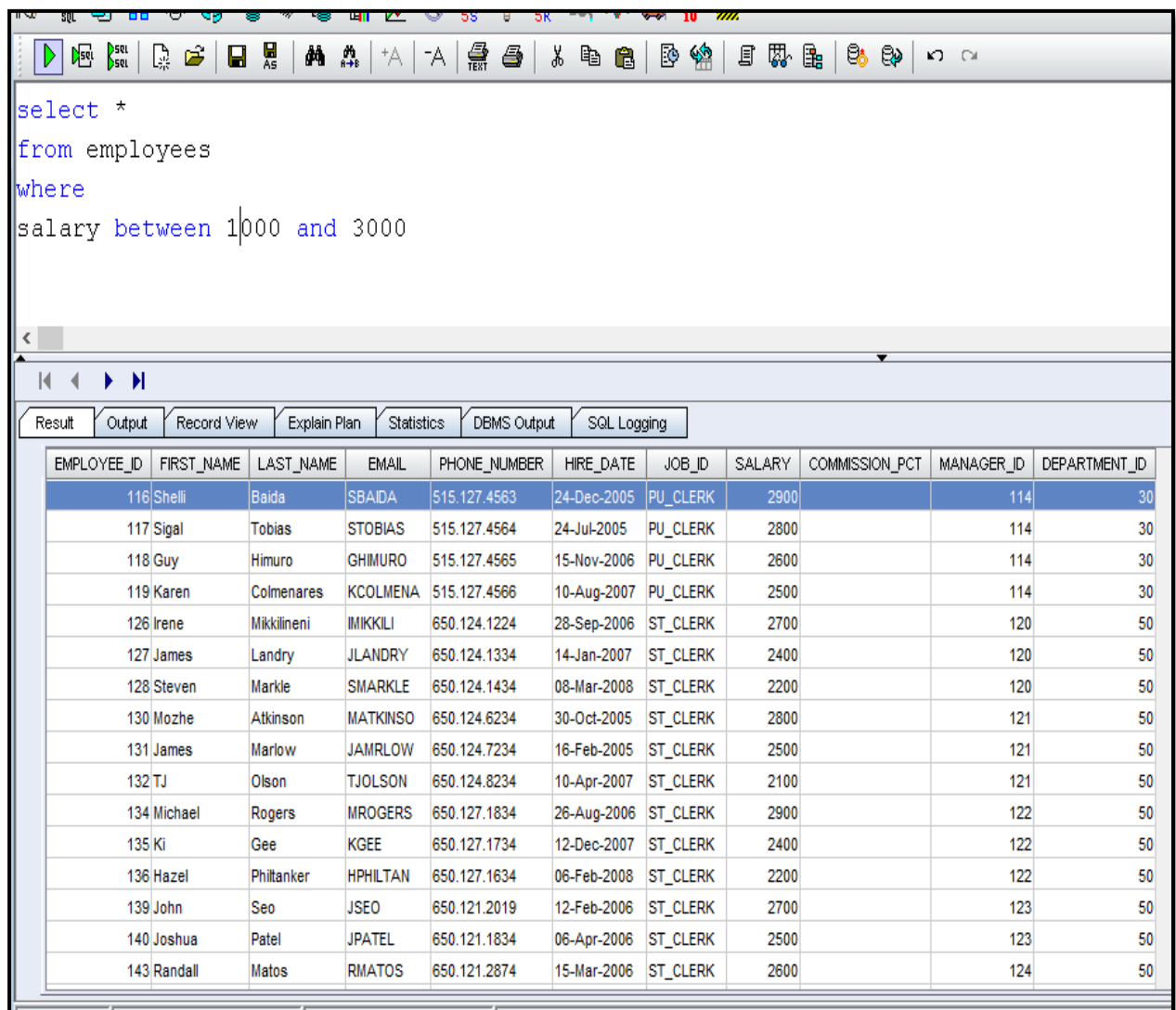
Que. Display the name of employees who have joined in 2016 and salary is greater than 10000?



Que. Write a query to display all the information of an employee whose salary and reporting person id is 3000 and 121



Que. Write a query to display all the information of the employees whose salary is within the range 1000 and 3000



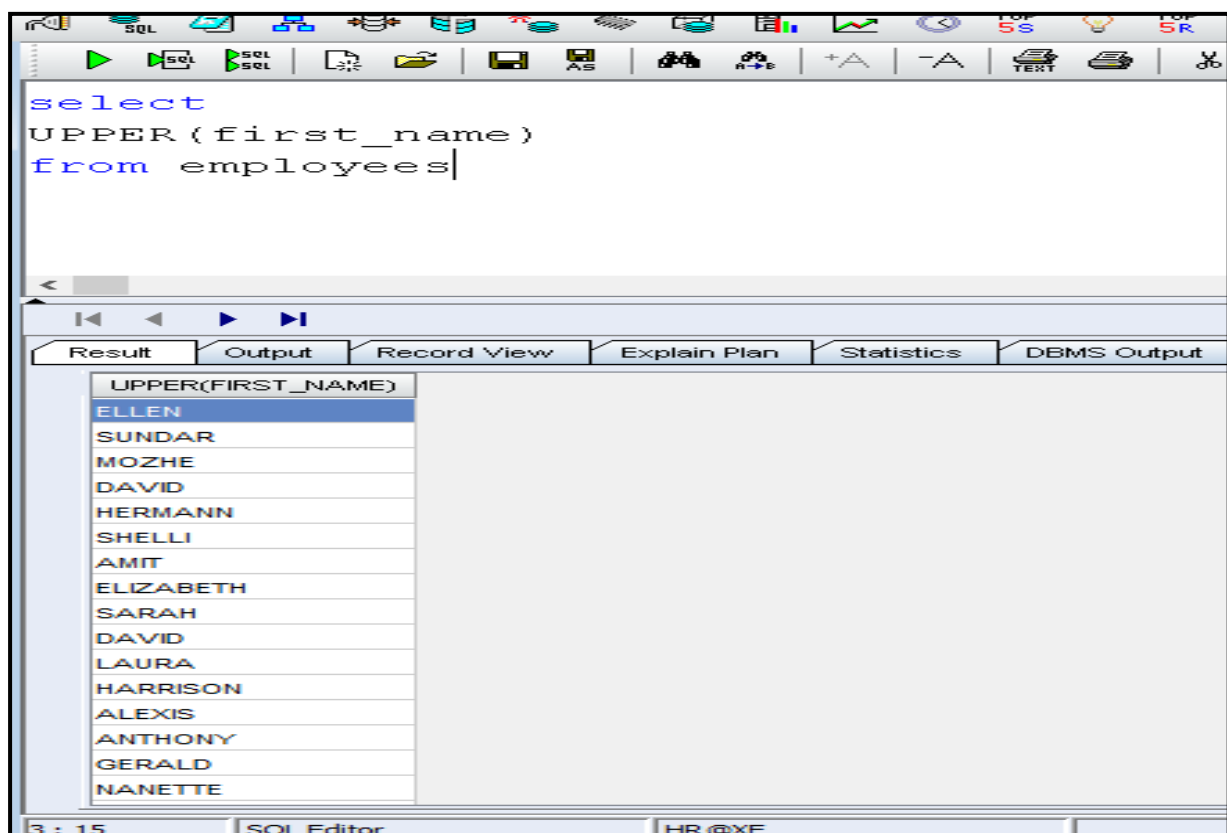
The screenshot shows an SQL IDE window with a query editor at the top and a results grid at the bottom. The query editor contains the following SQL statement:

```
select *  
from employees  
where  
salary between 1000 and 3000
```

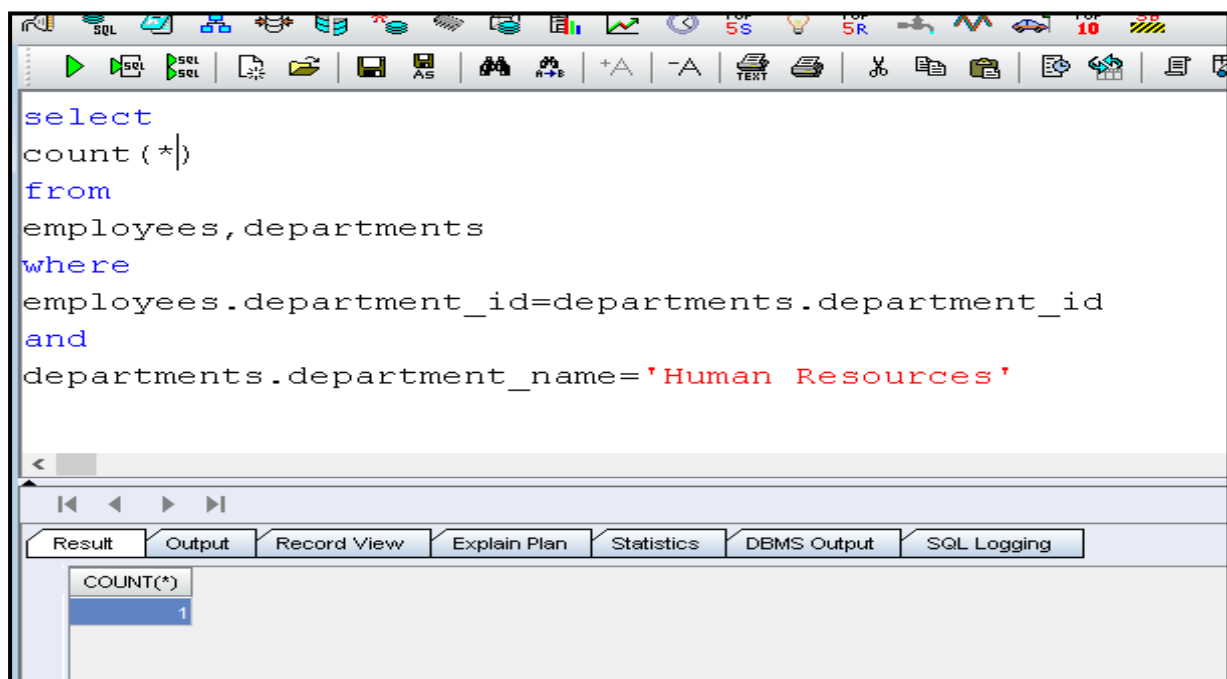
The results grid displays 15 rows of employee data. The columns are: EMPLOYEE_ID, FIRST_NAME, LAST_NAME, EMAIL, PHONE_NUMBER, HIRE_DATE, JOB_ID, SALARY, COMMISSION_PCT, MANAGER_ID, and DEPARTMENT_ID. The results are sorted by EMPLOYEE_ID in ascending order.

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
116	Shelli	Baida	SBAIDA	515.127.4563	24-Dec-2005	PU_CLERK	2900		114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	24-Jul-2005	PU_CLERK	2800		114	30
118	Guy	Himuro	GHIMURO	515.127.4565	15-Nov-2006	PU_CLERK	2600		114	30
119	Karen	Colmenares	KCOLMENA	515.127.4566	10-Aug-2007	PU_CLERK	2500		114	30
126	Irene	Mikkilineni	IMIKKILI	650.124.1224	28-Sep-2006	ST_CLERK	2700		120	50
127	James	Landry	JLANDRY	650.124.1334	14-Jan-2007	ST_CLERK	2400		120	50
128	Steven	Markle	SMARKLE	650.124.1434	08-Mar-2008	ST_CLERK	2200		120	50
130	Mozhe	Atkinson	MATKINSO	650.124.6234	30-Oct-2005	ST_CLERK	2800		121	50
131	James	Marlow	JAMRLOW	650.124.7234	16-Feb-2005	ST_CLERK	2500		121	50
132	TJ	Olson	TJOLSON	650.124.8234	10-Apr-2007	ST_CLERK	2100		121	50
134	Michael	Rogers	MROGERS	650.127.1834	26-Aug-2006	ST_CLERK	2900		122	50
135	Ki	Gee	KGEE	650.127.1734	12-Dec-2007	ST_CLERK	2400		122	50
136	Hazel	Philtanker	HPHILTAN	650.127.1634	06-Feb-2008	ST_CLERK	2200		122	50
139	John	Seo	JSEO	650.121.2019	12-Feb-2006	ST_CLERK	2700		123	50
140	Joshua	Patel	JPATEL	650.121.1834	06-Apr-2006	ST_CLERK	2500		123	50
143	Randall	Matos	RMATOS	650.121.2874	15-Mar-2006	ST_CLERK	2600		124	50

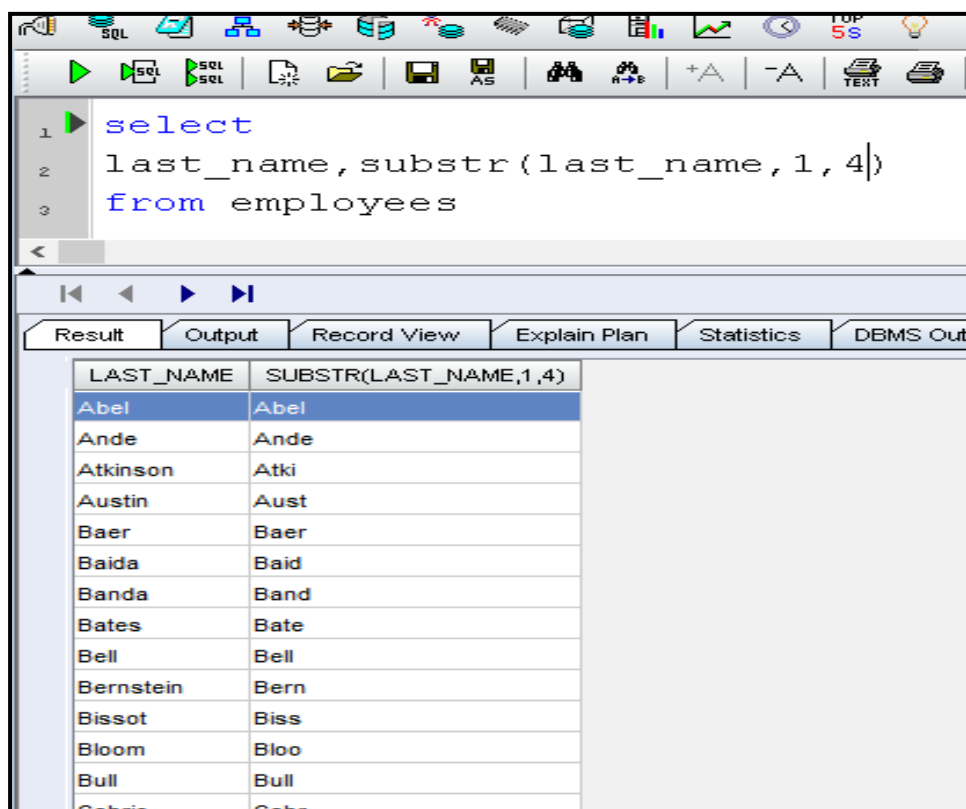
Que. Write a query to fetch the Employee First name in the upper case.



Que. Write a query to fetch the number of employees working in the department 'HR'.



Que. Write a query to retrieve the first four characters of EMPLOYEE Last name.



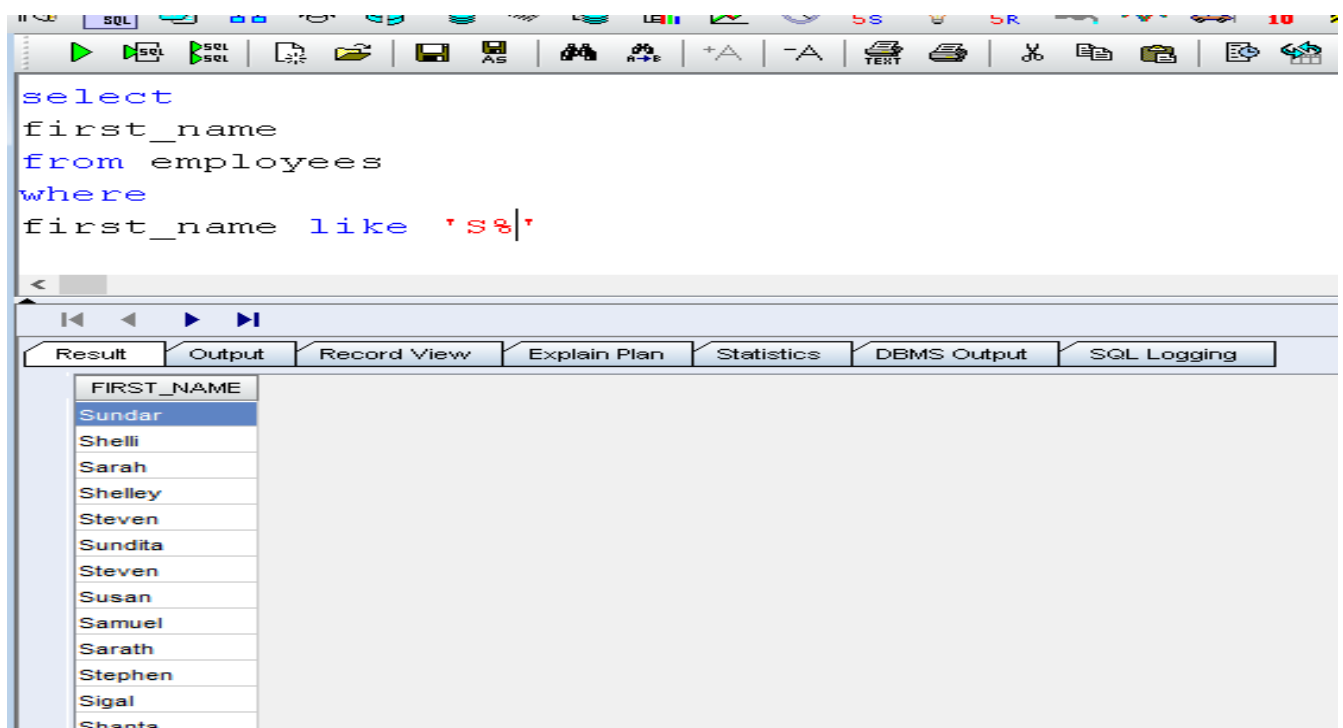
The screenshot shows the SQL Developer interface. The query editor contains the following SQL query:

```
1 select
2 last_name, substr(last_name, 1, 4)
3 from employees
```

The query is executed, and the results are displayed in the 'Result' tab. The table has two columns: LAST_NAME and SUBSTR(LAST_NAME,1,4). The results are as follows:

LAST_NAME	SUBSTR(LAST_NAME,1,4)
Abel	Abel
Ande	Ande
Atkinson	Atki
Austin	Aust
Baer	Baer
Baida	Baid
Banda	Band
Bates	Bate
Bell	Bell
Bernstein	Bern
Bissot	Biss
Bloom	Bloo
Bull	Bull
Cabrera	Cabr

Que. Write a query to find the names of employees that begin with 'S'.



The screenshot shows the SQL Developer interface. The query editor contains the following SQL query:

```
select
first_name
from employees
where
first_name like 'S%'
```

The query is executed, and the results are displayed in the 'Result' tab. The table has one column: FIRST_NAME. The results are as follows:

FIRST_NAME
Sundar
Shelli
Sarah
Shelley
Steven
Sundita
Steven
Susan
Samuel
Sarath
Stephen
Sigal
Shanta

