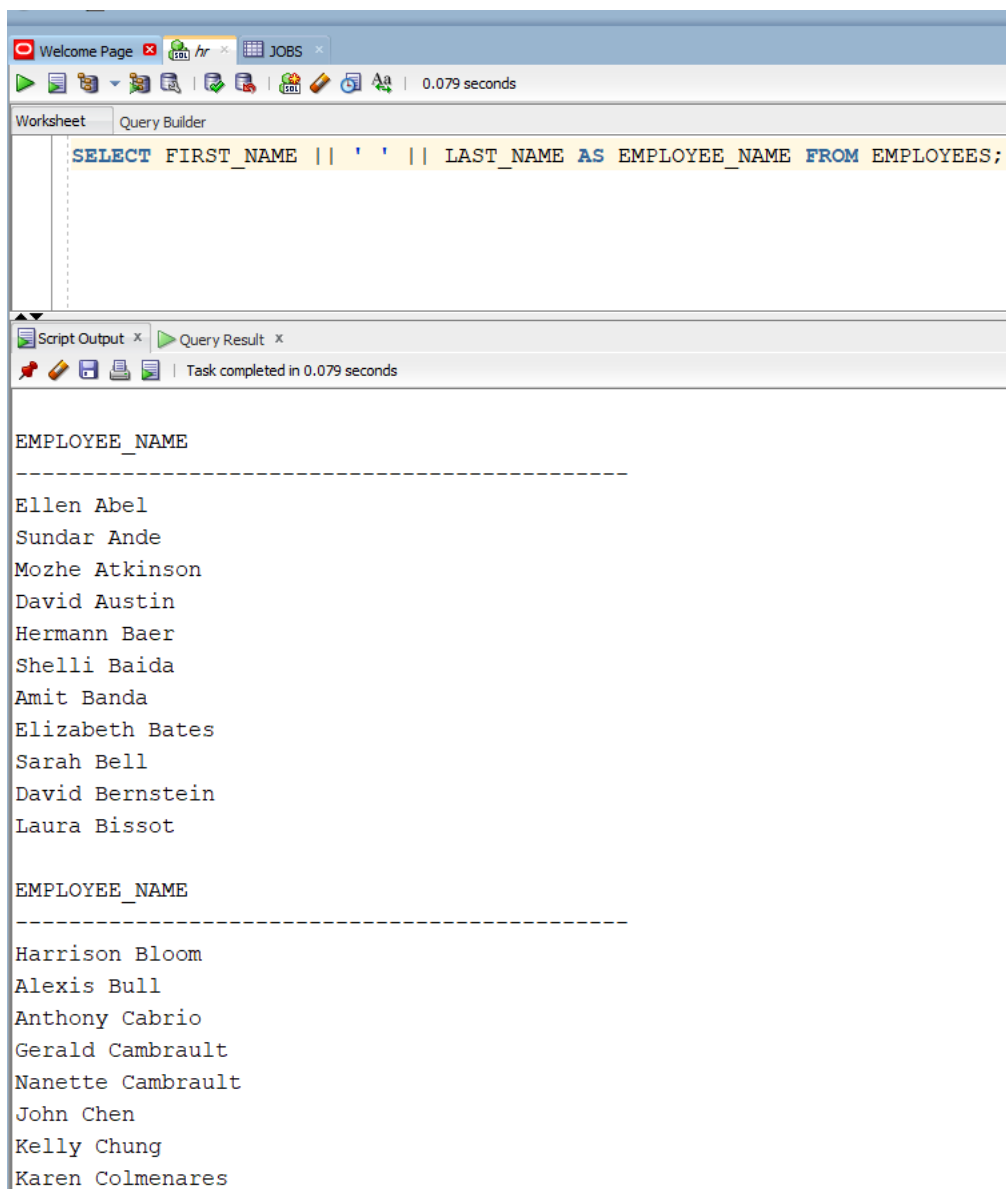


**LAB#02 – TASK#01**



The screenshot shows a database query tool interface. At the top, there are tabs for 'Welcome Page', 'hr', and 'JOBS'. Below the tabs is a toolbar with various icons and a timer showing '0.079 seconds'. The main area is divided into two sections: 'Worksheet' and 'Query Builder'. The 'Query Builder' section contains the following SQL query:

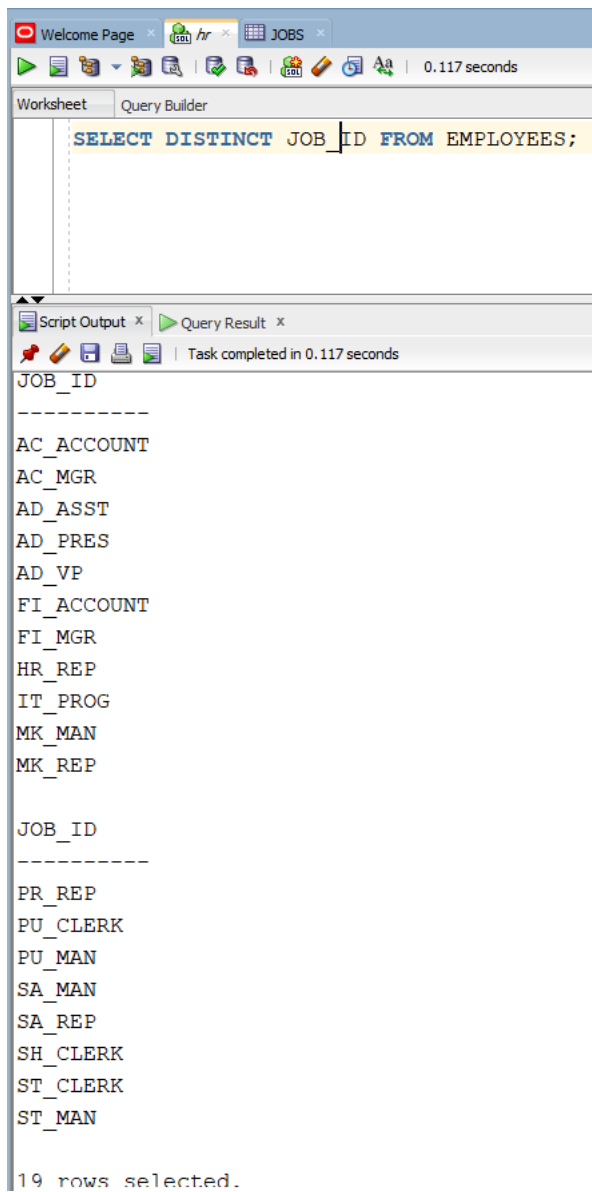
```
SELECT FIRST_NAME || ' ' || LAST_NAME AS EMPLOYEE_NAME FROM EMPLOYEES;
```

Below the query, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab shows the results of the query, which are the employee names. The results are displayed in two groups, each with a header 'EMPLOYEE\_NAME' followed by a dashed line.

EMPLOYEE\_NAME  
-----  
Ellen Abel  
Sundar Ande  
Mozhe Atkinson  
David Austin  
Hermann Baer  
Shelli Baida  
Amit Banda  
Elizabeth Bates  
Sarah Bell  
David Bernstein  
Laura Bissot

EMPLOYEE\_NAME  
-----  
Harrison Bloom  
Alexis Bull  
Anthony Cabrio  
Gerald Cambrault  
Nanette Cambrault  
John Chen  
Kelly Chung  
Karen Colmenares

**LAB#02 – TASK#02**

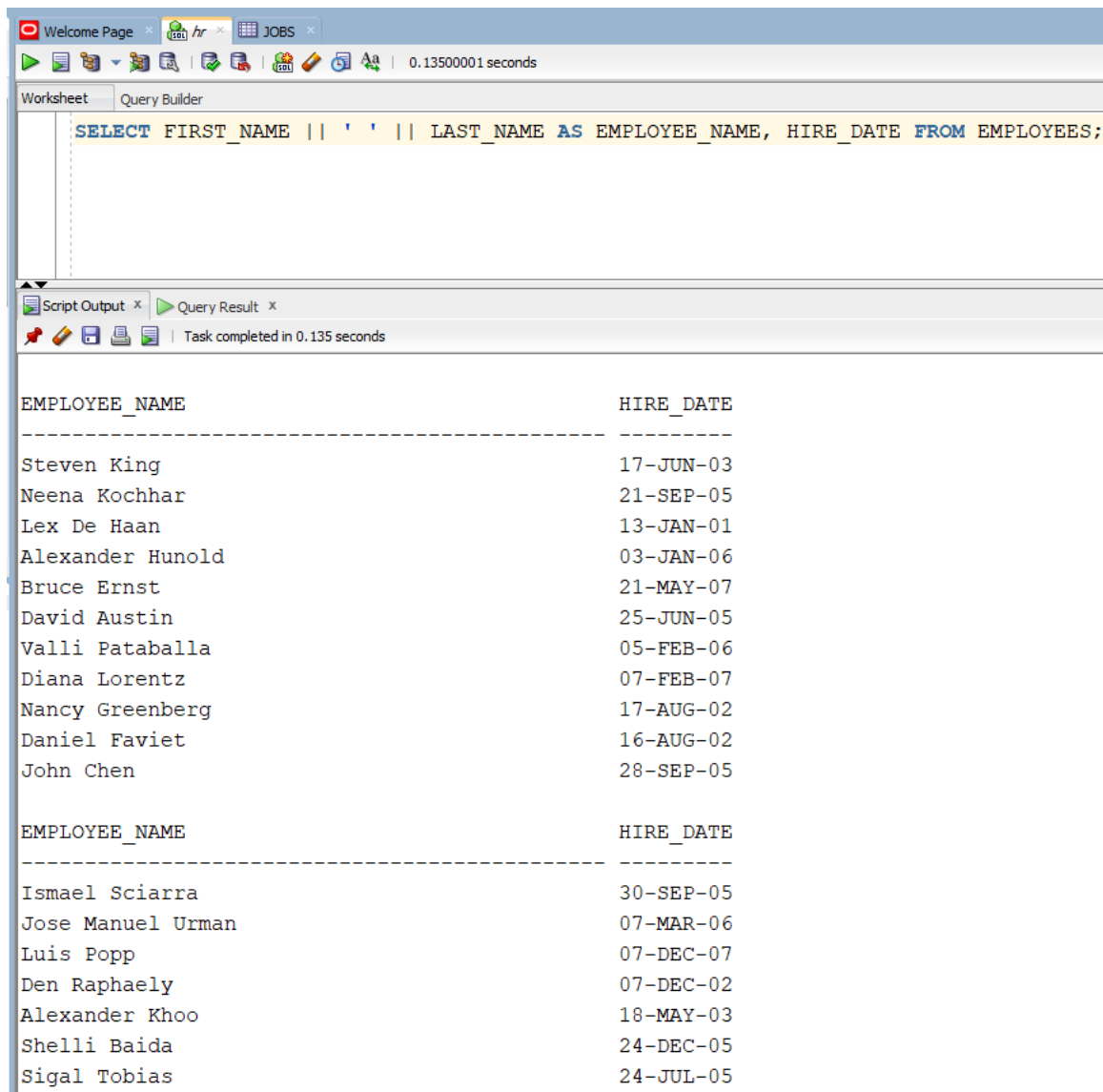


The screenshot shows a database query tool interface. At the top, there are tabs for 'Welcome Page', 'hr', and 'JOBS'. Below the tabs is a toolbar with various icons and a timer showing '0.117 seconds'. The main area is divided into 'Worksheet' and 'Query Builder' tabs. The 'Query Builder' tab is active, displaying the SQL query: `SELECT DISTINCT JOB_ID FROM EMPLOYEES;`. Below the query, there is a 'Script Output' tab and a 'Query Result' tab. The 'Query Result' tab is active, showing the results of the query. The results are displayed as a list of job IDs, with a header 'JOB\_ID' and a separator line. The job IDs listed are: AC\_ACCOUNT, AC\_MGR, AD\_ASST, AD PRES, AD\_VP, FI\_ACCOUNT, FI\_MGR, HR\_REP, IT\_PROG, MK\_MAN, MK\_REP, PR\_REP, PU\_CLERK, PU\_MAN, SA\_MAN, SA\_REP, SH\_CLERK, ST\_CLERK, and ST\_MAN. At the bottom, it says '19 rows selected.'

```
SELECT DISTINCT JOB_ID FROM EMPLOYEES;
```

JOB\_ID  
-----  
AC\_ACCOUNT  
AC\_MGR  
AD\_ASST  
AD PRES  
AD\_VP  
FI\_ACCOUNT  
FI\_MGR  
HR\_REP  
IT\_PROG  
MK\_MAN  
MK\_REP  
  
JOB\_ID  
-----  
PR\_REP  
PU\_CLERK  
PU\_MAN  
SA\_MAN  
SA\_REP  
SH\_CLERK  
ST\_CLERK  
ST\_MAN  
  
19 rows selected.

### LAB#02 – TASK#03



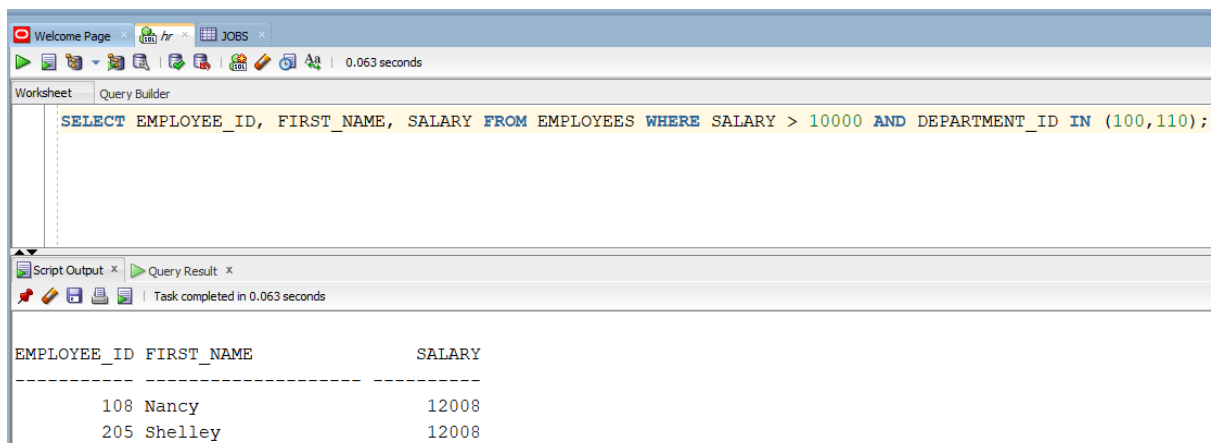
The screenshot shows the SQL Developer interface with a query window and a results window. The query window contains the following SQL statement:

```
SELECT FIRST_NAME || ' ' || LAST_NAME AS EMPLOYEE_NAME, HIRE_DATE FROM EMPLOYEES;
```

The results window displays the output of the query, showing the employee names and their hire dates. The results are as follows:

EMPLOYEE_NAME	HIRE_DATE
Steven King	17-JUN-03
Neena Kochhar	21-SEP-05
Lex De Haan	13-JAN-01
Alexander Hunold	03-JAN-06
Bruce Ernst	21-MAY-07
David Austin	25-JUN-05
Valli Pataballa	05-FEB-06
Diana Lorentz	07-FEB-07
Nancy Greenberg	17-AUG-02
Daniel Faviet	16-AUG-02
John Chen	28-SEP-05
Ismael Sciarra	30-SEP-05
Jose Manuel Urman	07-MAR-06
Luis Popp	07-DEC-07
Den Raphaely	07-DEC-02
Alexander Khoo	18-MAY-03
Shelli Baida	24-DEC-05
Sigal Tobias	24-JUL-05

### LAB#02 – TASK#04



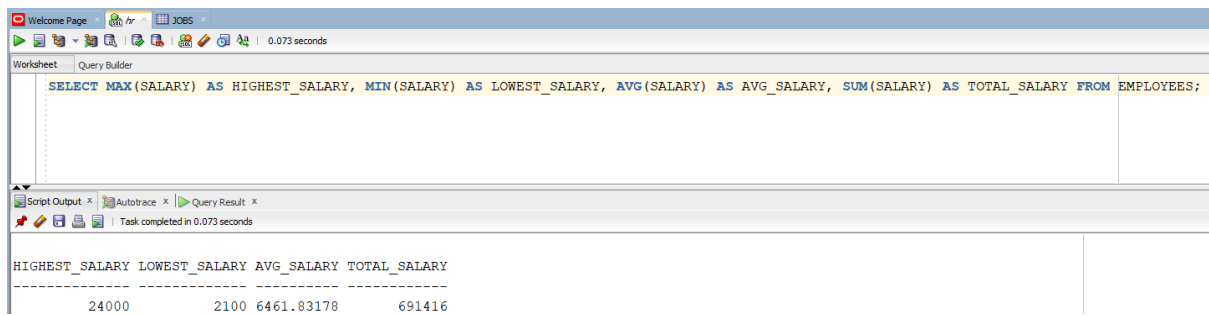
The screenshot shows the SQL Developer interface with a query window and a results window. The query window contains the following SQL statement:

```
SELECT EMPLOYEE_ID, FIRST_NAME, SALARY FROM EMPLOYEES WHERE SALARY > 10000 AND DEPARTMENT_ID IN (100,110);
```

The results window displays the output of the query, showing the employee IDs, names, and salaries. The results are as follows:

EMPLOYEE_ID	FIRST_NAME	SALARY
108	Nancy	12008
205	Shelley	12008

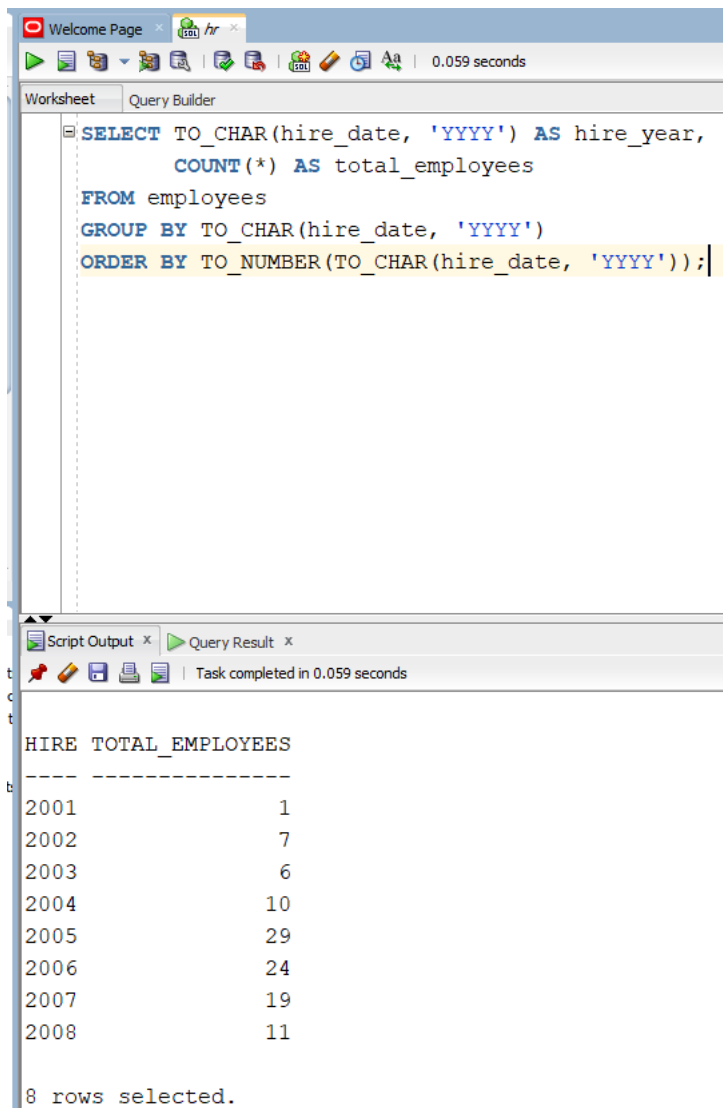
## LAB#02 – TASK#05



The screenshot shows the SQL Developer interface with a query in the Query Builder. The query is: `SELECT MAX(SALARY) AS HIGHEST_SALARY, MIN(SALARY) AS LOWEST_SALARY, AVG(SALARY) AS AVG_SALARY, SUM(SALARY) AS TOTAL_SALARY FROM EMPLOYEES;`. The results are displayed in a table below the query.

HIGHEST_SALARY	LOWEST_SALARY	AVG_SALARY	TOTAL_SALARY
24000	2100	6461.83178	691416

## LAB#02 – TASK#06

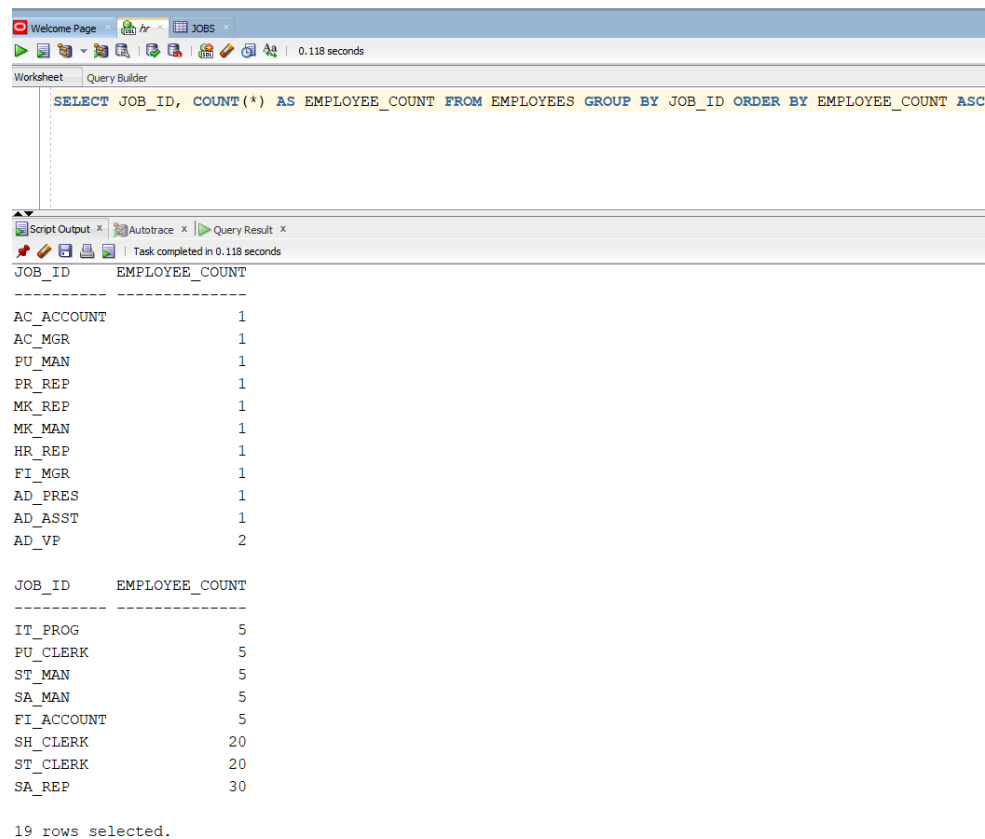


The screenshot shows the SQL Developer interface with a query in the Query Builder. The query is: `SELECT TO_CHAR(hire_date, 'YYYY') AS hire_year, COUNT(*) AS total_employees FROM employees GROUP BY TO_CHAR(hire_date, 'YYYY') ORDER BY TO_NUMBER(TO_CHAR(hire_date, 'YYYY'));`. The results are displayed in a table below the query.

HIRE	TOTAL_EMPLOYEES
2001	1
2002	7
2003	6
2004	10
2005	29
2006	24
2007	19
2008	11

8 rows selected.

## LAB#02 – TASK#07



The screenshot shows the Oracle SQL Developer interface. The Query Builder window displays the following SQL query:

```
SELECT JOB_ID, COUNT(*) AS EMPLOYEE_COUNT FROM EMPLOYEES GROUP BY JOB_ID ORDER BY EMPLOYEE_COUNT ASC
```

The Query Result window shows the results of the query, which are 19 rows selected. The results are displayed in two tables:

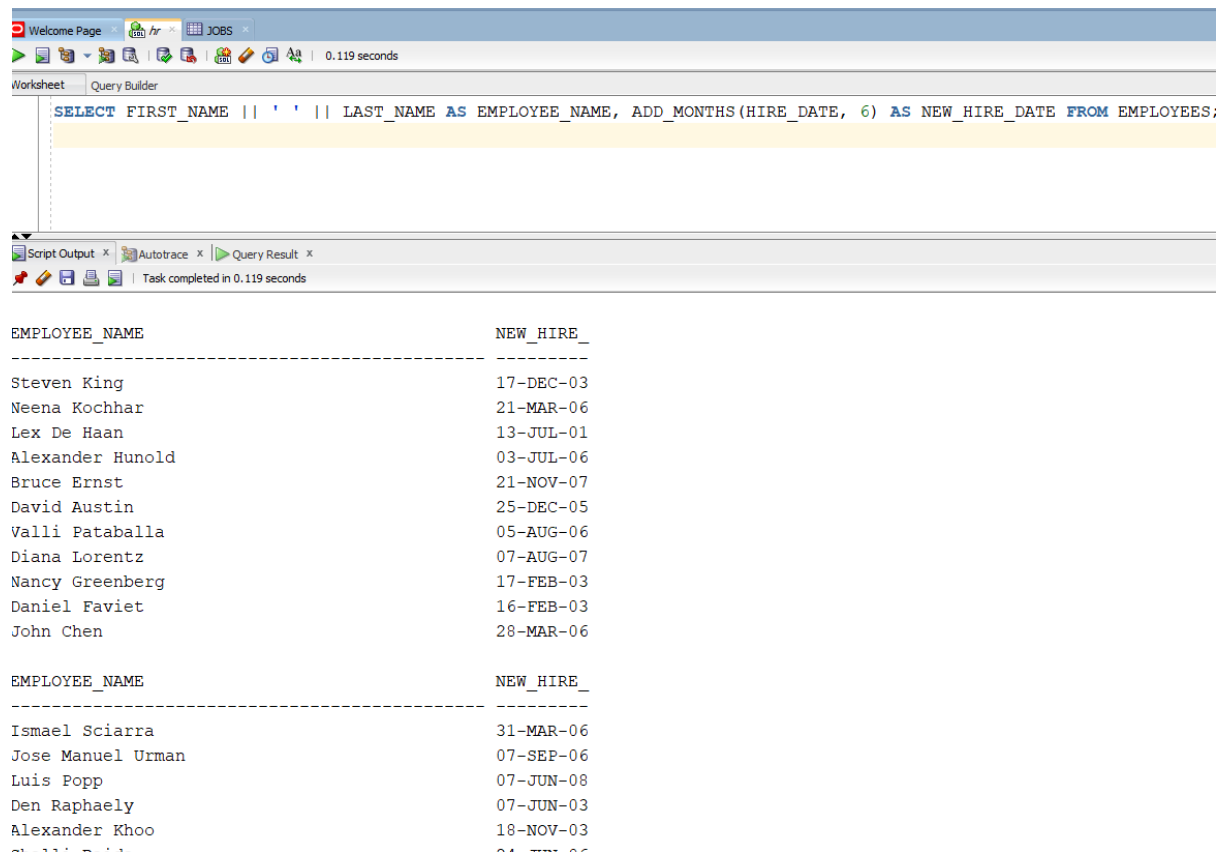
JOB_ID	EMPLOYEE_COUNT
AC_ACCOUNT	1
AC_MGR	1
PU_MAN	1
PR_REP	1
MK_REP	1
MK_MAN	1
HR_REP	1
FI_MGR	1
AD_PRES	1
AD_ASST	1
AD_VP	2

JOB_ID	EMPLOYEE_COUNT
IT_PROG	5
PU_CLERK	5
ST_MAN	5
SA_MAN	5
FI_ACCOUNT	5
SH_CLERK	20
ST_CLERK	20
SA_REP	30

19 rows selected.

## LAB#02 – TASK#08



The screenshot shows the Oracle SQL Developer interface. The Query Builder window displays the following SQL query:

```
SELECT FIRST_NAME || ' ' || LAST_NAME AS EMPLOYEE_NAME, ADD_MONTHS(HIRE_DATE, 6) AS NEW_HIRE_DATE FROM EMPLOYEES;
```

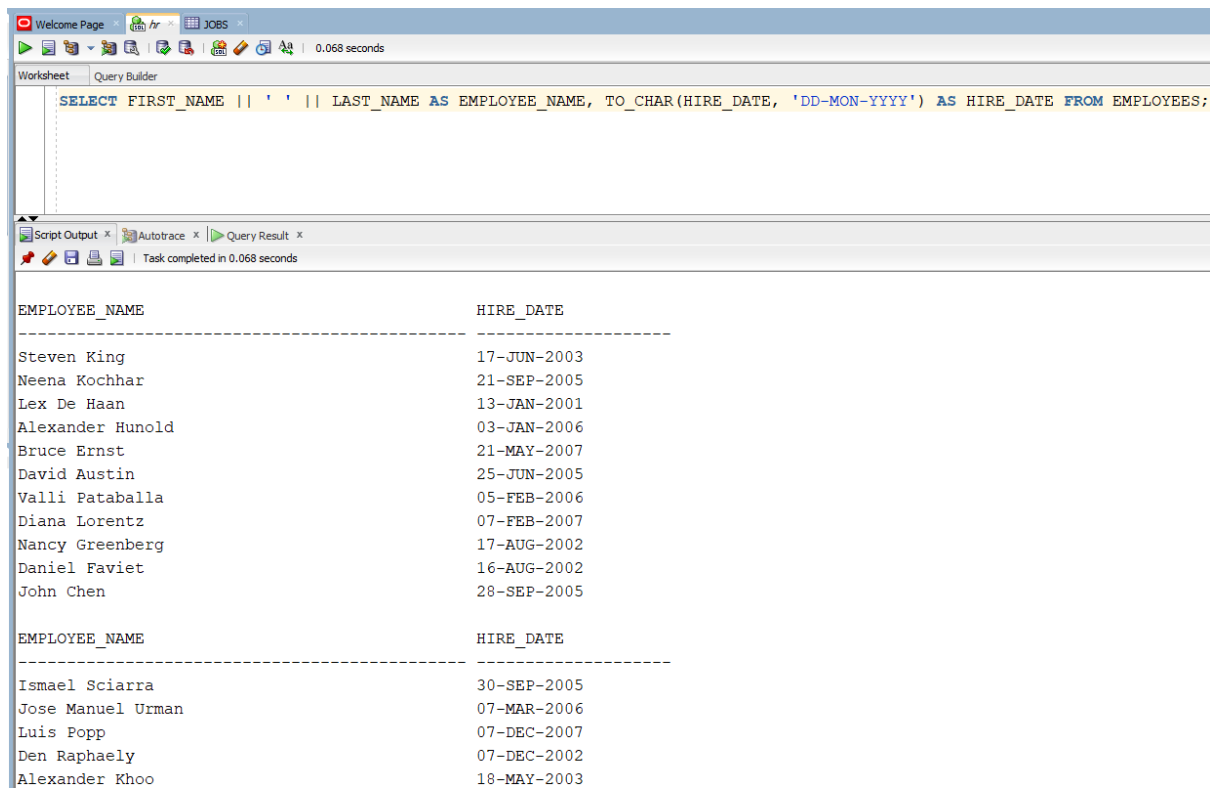
The Query Result window shows the results of the query, which are 19 rows selected. The results are displayed in two tables:

EMPLOYEE_NAME	NEW_HIRE_DATE
Steven King	17-DEC-03
Neena Kochhar	21-MAR-06
Lex De Haan	13-JUL-01
Alexander Hunold	03-JUL-06
Bruce Ernst	21-NOV-07
David Austin	25-DEC-05
Valli Pataballa	05-AUG-06
Diana Lorentz	07-AUG-07
Nancy Greenberg	17-FEB-03
Daniel Faviet	16-FEB-03
John Chen	28-MAR-06

EMPLOYEE_NAME	NEW_HIRE_DATE
Ismael Sciarra	31-MAR-06
Jose Manuel Urman	07-SEP-06
Luis Popp	07-JUN-08
Den Raphaely	07-JUN-03
Alexander Khoo	18-NOV-03
Shelley Steadman	04-JUN-06

## LAB#02 – TASK#09



The screenshot shows the Oracle SQL Developer interface. The 'Query Builder' tab is active, displaying the following SQL query:

```
SELECT FIRST_NAME || ' ' || LAST_NAME AS EMPLOYEE_NAME, TO_CHAR(HIRE_DATE, 'DD-MON-YYYY') AS HIRE_DATE FROM EMPLOYEES;
```

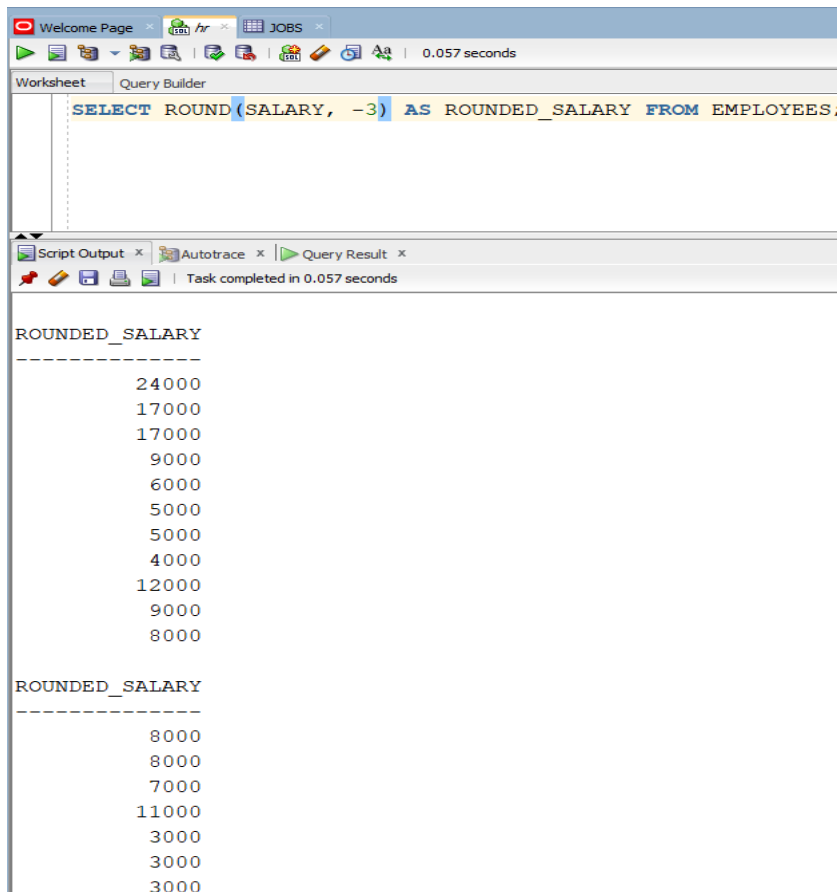
The 'Query Result' tab shows the output of the query, which is a list of employee names and their hire dates. The results are displayed in two sections, separated by a dashed line.

EMPLOYEE_NAME	HIRE_DATE
Steven King	17-JUN-2003
Neena Kochhar	21-SEP-2005
Lex De Haan	13-JAN-2001
Alexander Hunold	03-JAN-2006
Bruce Ernst	21-MAY-2007
David Austin	25-JUN-2005
Valli Pataballa	05-FEB-2006
Diana Lorentz	07-FEB-2007
Nancy Greenberg	17-AUG-2002
Daniel Faviet	16-AUG-2002
John Chen	28-SEP-2005

EMPLOYEE_NAME	HIRE_DATE
Ismael Sciarra	30-SEP-2005
Jose Manuel Urman	07-MAR-2006
Luis Popp	07-DEC-2007
Den Raphaely	07-DEC-2002
Alexander Khoo	18-MAY-2003

## LAB#02 – TASK#10



The screenshot shows the Oracle SQL Developer interface. The 'Query Builder' tab is active, displaying the following SQL query:

```
SELECT ROUND(SALARY, -3) AS ROUNDED_SALARY FROM EMPLOYEES;
```

The 'Query Result' tab shows the output of the query, which is a list of rounded salaries. The results are displayed in two sections, separated by a dashed line.

ROUNDED_SALARY
24000
17000
17000
9000
6000
5000
5000
4000
12000
9000
8000

ROUNDED_SALARY
8000
8000
7000
11000
3000
3000
3000