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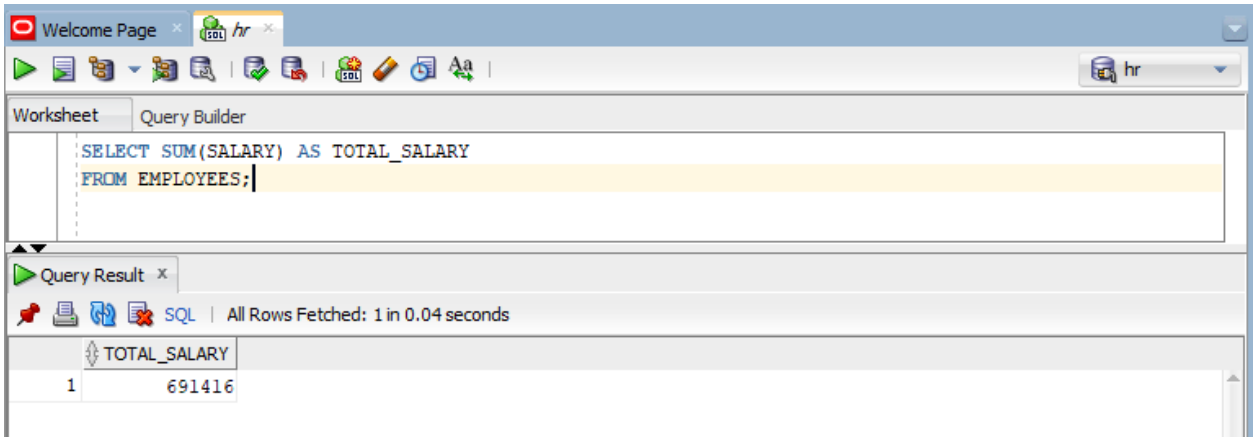
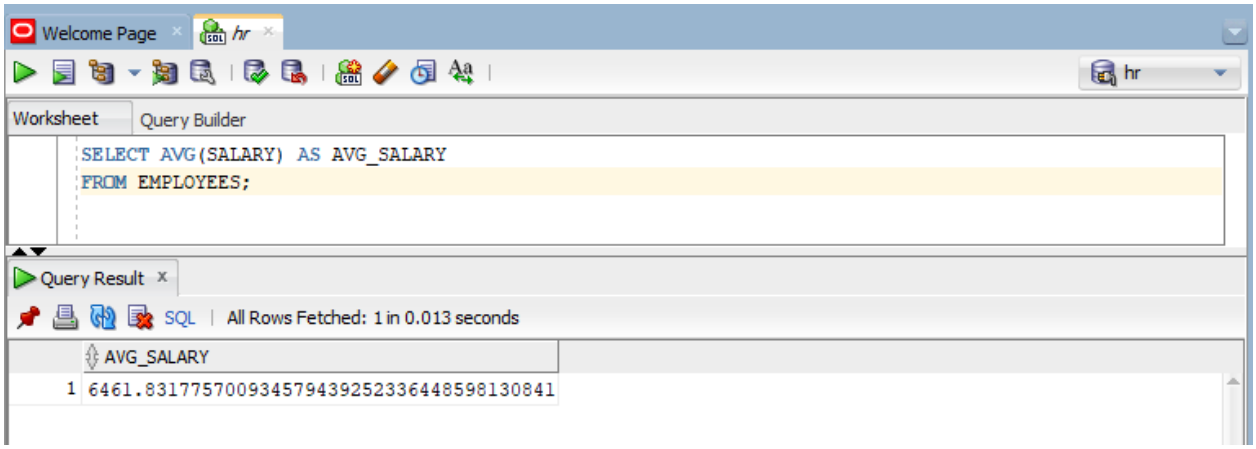
23K-0074
BAI-5A

Database Lab - Lab 02
In-Lab & Post-Lab Tasks

Q1)


Welcome Page
hr
hr
Worksheet
Query Builder
SELECT SUM(SALARY) AS TOTAL_SALARY
FROM EMPLOYEES;
Query Result
SQL | All Rows Fetched: 1 in 0.04 seconds
TOTAL_SALARY
1 691416

Q2)


Welcome Page
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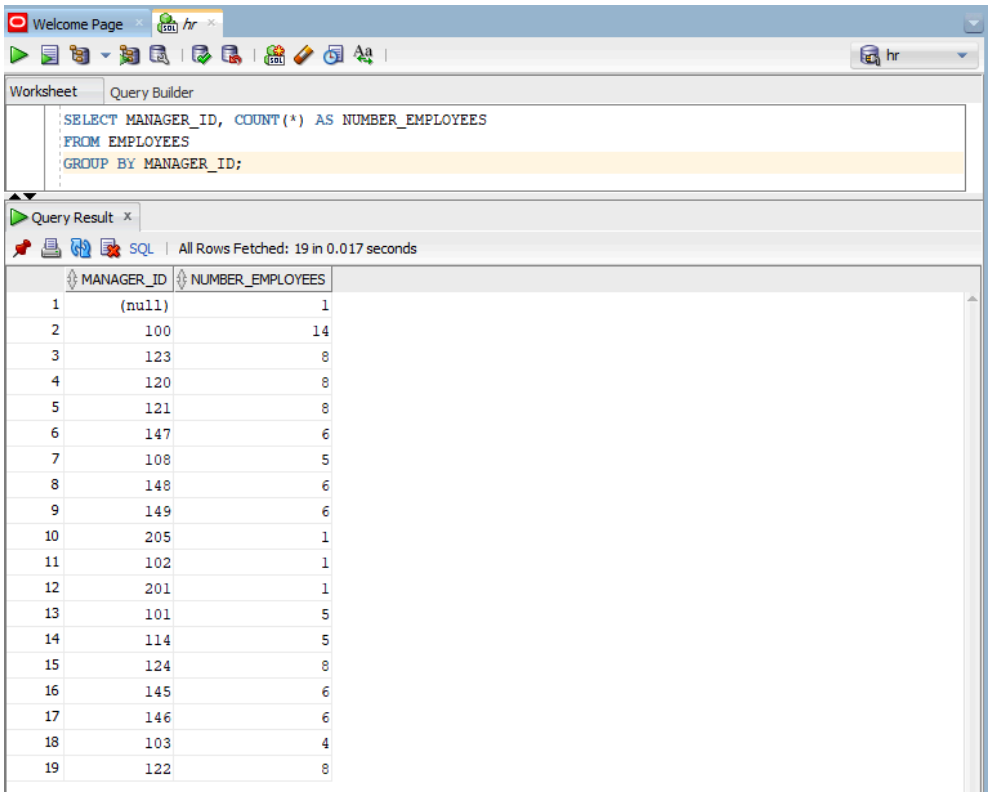
Worksheet
Query Builder
SELECT AVG(SALARY) AS AVG_SALARY
FROM EMPLOYEES;
Query Result
SQL | All Rows Fetched: 1 in 0.013 seconds
AVG_SALARY
1 6461.831775700934579439252336448598130841

Q3)


Welcome Page
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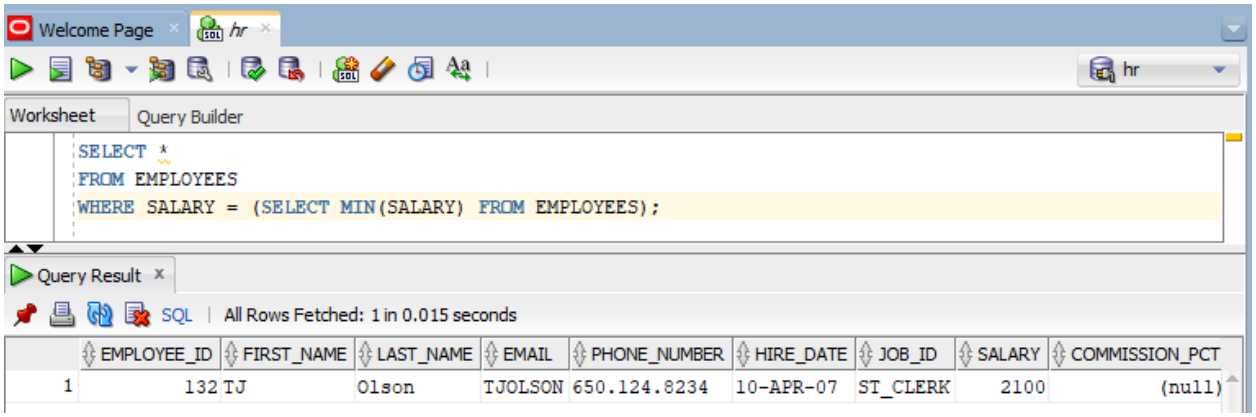
Worksheet
Query Builder
SELECT MANAGER_ID, COUNT(*) AS NUMBER_EMPLOYEES
FROM EMPLOYEES
GROUP BY MANAGER_ID;
Query Result
SQL | All Rows Fetched: 19 in 0.017 seconds
MANAGER_ID NUMBER_EMPLOYEES
1 (null) 1
2 100 14
3 123 8
4 120 8
5 121 8
6 147 6
7 108 5
8 148 6
9 149 6
10 205 1
11 102 1
12 201 1
13 101 5
14 114 5
15 124 8
16 145 6
17 146 6
18 103 4
19 122 8

Q4)


Welcome Page
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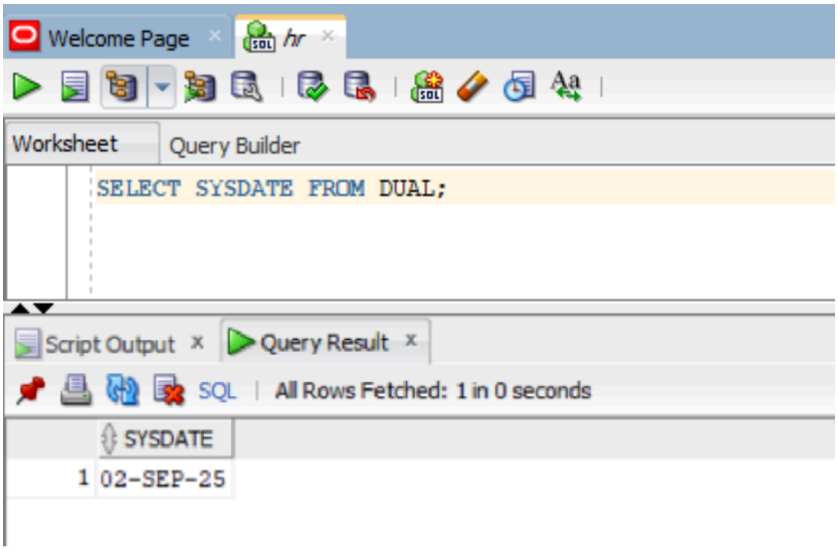
Worksheet
Query Builder
SELECT *
FROM EMPLOYEES
WHERE SALARY = (SELECT MIN(SALARY) FROM EMPLOYEES);
Query Result
SQL | All Rows Fetched: 1 in 0.015 seconds
EMPLOYEE_ID FIRST_NAME LAST_NAME EMAIL PHONE_NUMBER HIRE_DATE JOB_ID SALARY COMMISSION_PCT
1 132 TJ Olson TJOLSON 650.124.8234 10-APR-07 ST_CLERK 2100 (null)

Q5)


Welcome Page
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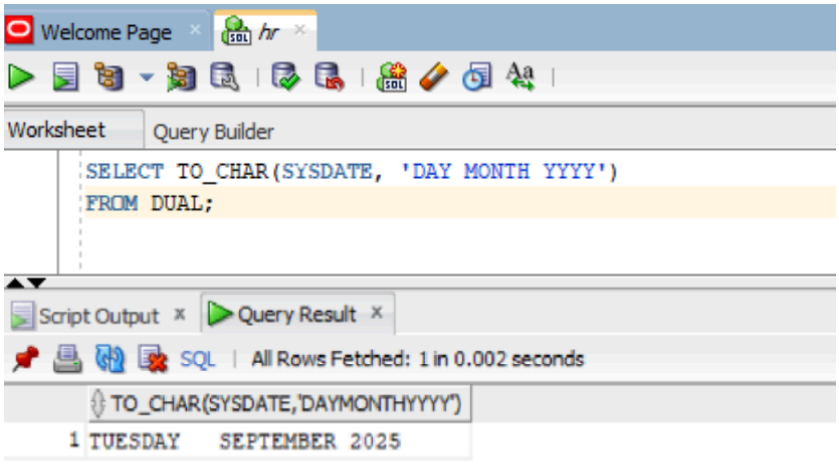
Worksheet
Query Builder
SELECT SYSDATE FROM DUAL;
Script Output
Query Result
SQL | All Rows Fetched: 1 in 0 seconds
SYSDATE
1 02-SEP-25

Q6)


Welcome Page
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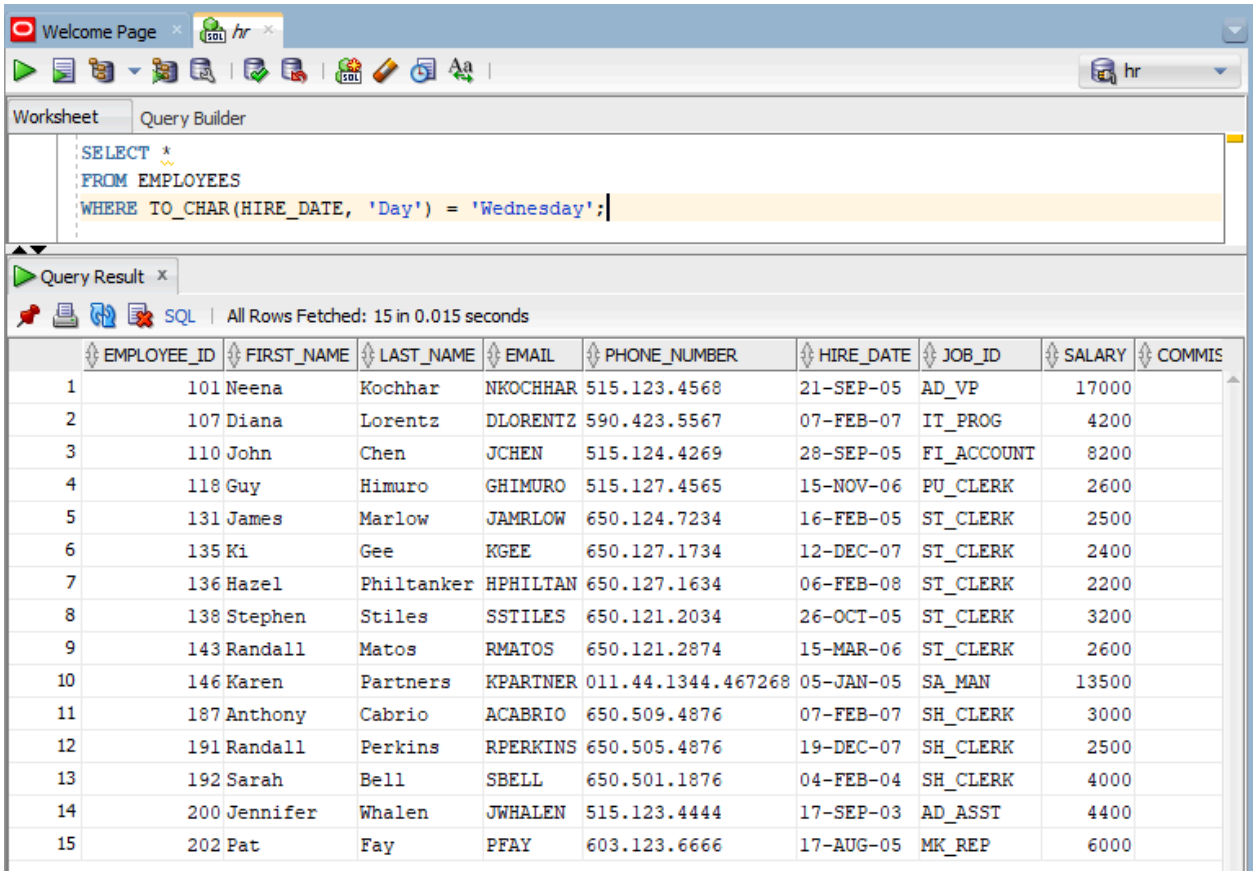
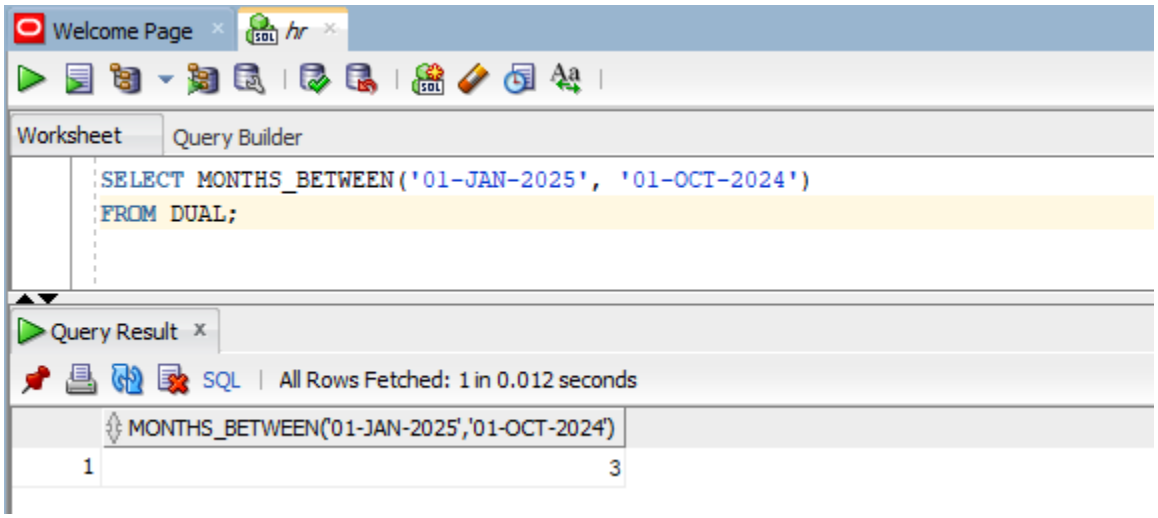
Worksheet
Query Builder
SELECT TO_CHAR(SYSDATE, 'DAY MONTH YYYY')
FROM DUAL;
Script Output
Query Result
SQL | All Rows Fetched: 1 in 0.002 seconds
TO_CHAR(SYSDATE,'DAYMONTHYYYY')
1 TUESDAY SEPTEMBER 2025

Q7)



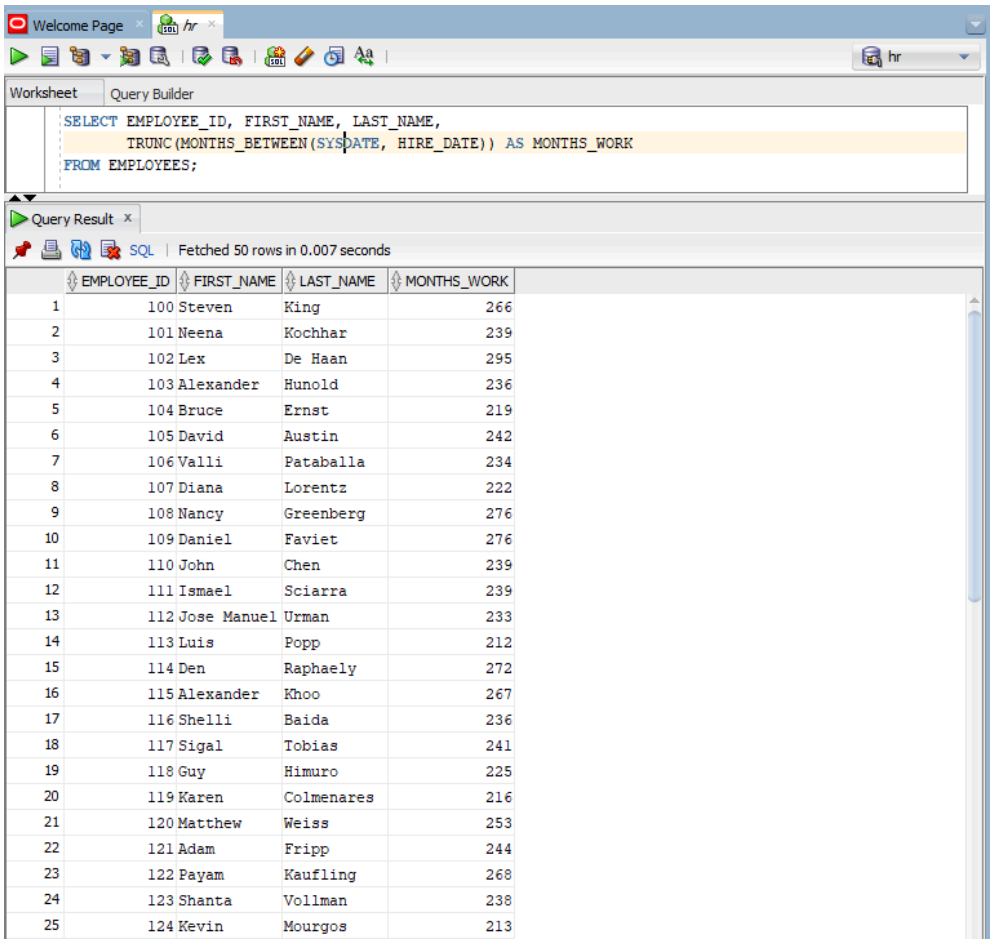
	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMIS
1	101	Neena	Kochhar	NKOCHHAR	515.123.4568	21-SEP-05	AD_VP	17000	
2	107	Diana	Lorentz	DLORENTZ	590.423.5567	07-FEB-07	IT_PROG	4200	
3	110	John	Chen	JCHEN	515.124.4269	28-SEP-05	FI_ACCOUNT	8200	
4	118	Guy	Himuro	GHIMURO	515.127.4565	15-NOV-06	PU_CLERK	2600	
5	131	James	Marlow	JAMRLOW	650.124.7234	16-FEB-05	ST_CLERK	2500	
6	135	Ki	Gee	KGEE	650.127.1734	12-DEC-07	ST_CLERK	2400	
7	136	Hazel	Philtanker	HPHILTAN	650.127.1634	06-FEB-08	ST_CLERK	2200	
8	138	Stephen	Stiles	SSTILES	650.121.2034	26-OCT-05	ST_CLERK	3200	
9	143	Randall	Matos	RMATOS	650.121.2874	15-MAR-06	ST_CLERK	2600	
10	146	Karen	Partners	KPARTNER	011.44.1344.467268	05-JAN-05	SA_MAN	13500	
11	187	Anthony	Cabrio	ACABRIO	650.509.4876	07-FEB-07	SH_CLERK	3000	
12	191	Randall	Perkins	RPERKINS	650.505.4876	19-DEC-07	SH_CLERK	2500	
13	192	Sarah	Bell	SBELL	650.501.1876	04-FEB-04	SH_CLERK	4000	
14	200	Jennifer	Whalen	JWHALEN	515.123.4444	17-SEP-03	AD_ASST	4400	
15	202	Pat	Fay	PFAY	603.123.6666	17-AUG-05	MK_REP	6000	

Q8)



	MONTHS_BETWEEN('01-JAN-2025','01-OCT-2024')
1	3

Q9)

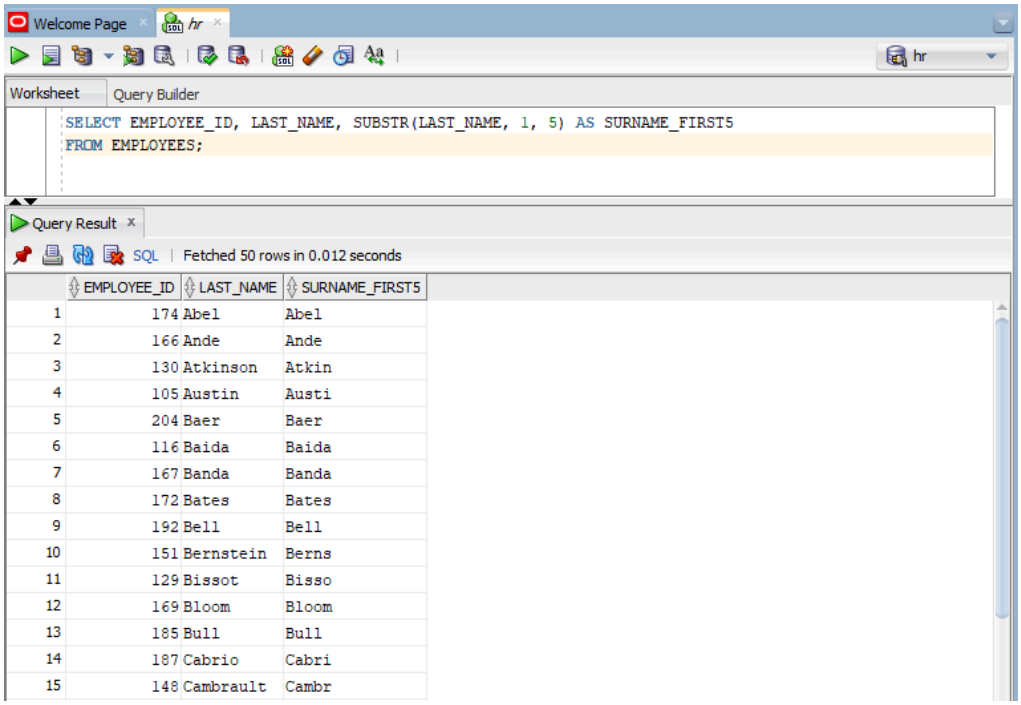


```
SELECT EMPLOYEE_ID, FIRST_NAME, LAST_NAME,
       TRUNC(MONTHS_BETWEEN(SYSDATE, HIRE_DATE)) AS MONTHS_WORK
FROM EMPLOYEES;
```

Query Result — Fetched 50 rows in 0.007 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	MONTHS_WORK
1	100	Steven	King	266
2	101	Neena	Kochhar	239
3	102	Lex	De Haan	295
4	103	Alexander	Hunold	236
5	104	Bruce	Ernst	219
6	105	David	Austin	242
7	106	Valli	Pataballa	234
8	107	Diana	Lorentz	222
9	108	Nancy	Greenberg	276
10	109	Daniel	Faviet	276
11	110	John	Chen	239
12	111	Ismael	Sciarra	239
13	112	Jose Manuel	Urman	233
14	113	Luis	Popp	212
15	114	Den	Raphaely	272
16	115	Alexander	Khoo	267
17	116	Shelli	Baida	236
18	117	Sigal	Tobias	241
19	118	Guy	Himuro	225
20	119	Karen	Colmenares	216
21	120	Matthew	Weiss	253
22	121	Adam	Fripp	244
23	122	Payam	Kaufling	268
24	123	Shanta	Vollman	238
25	124	Kevin	Mourgos	213

Q10)

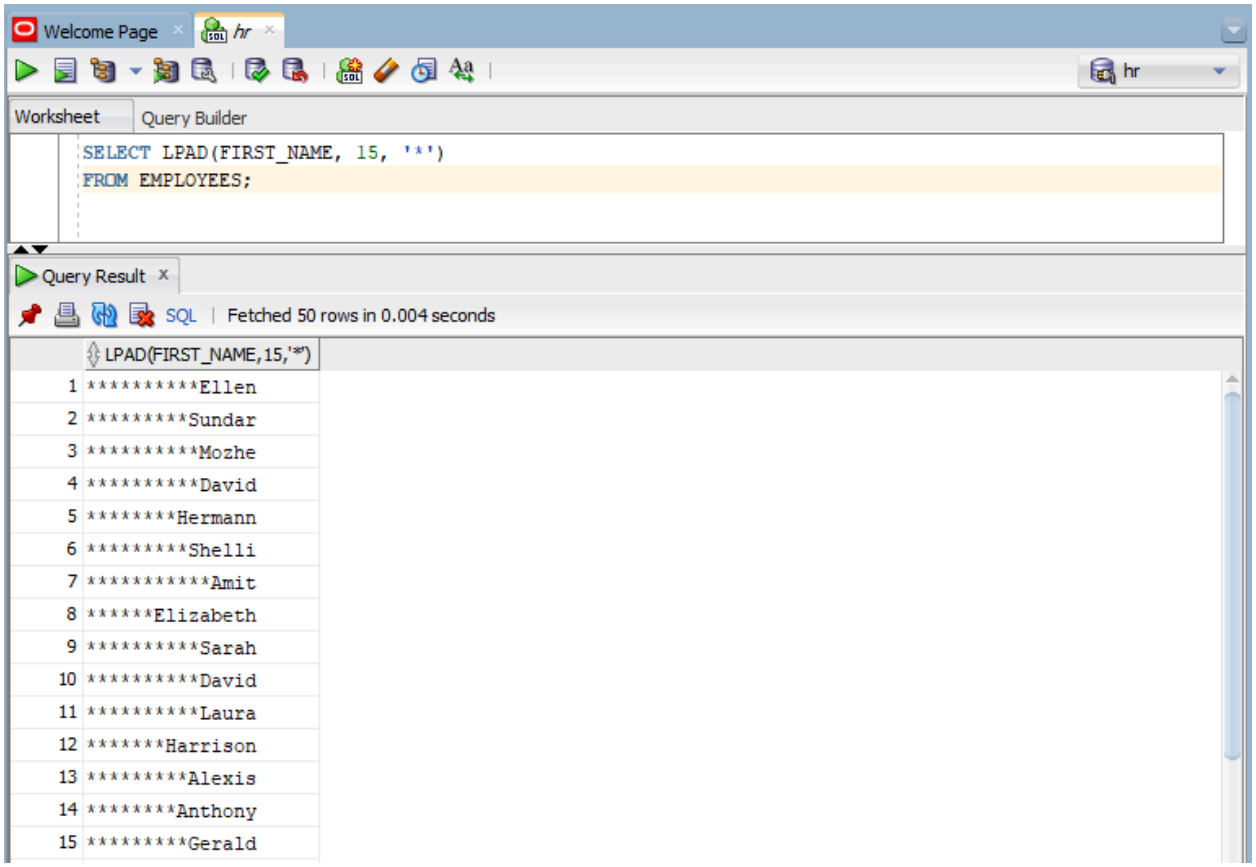


```
SELECT EMPLOYEE_ID, LAST_NAME, SUBSTR(LAST_NAME, 1, 5) AS SURNAME_FIRST5
FROM EMPLOYEES;
```

Query Result — Fetched 50 rows in 0.012 seconds

	EMPLOYEE_ID	LAST_NAME	SURNAME_FIRST5
1	174	Abel	Abel
2	166	Ande	Ande
3	130	Atkinson	Atkin
4	105	Austin	Austi
5	204	Baer	Baer
6	116	Baida	Baida
7	167	Banda	Banda
8	172	Bates	Bates
9	192	Bell	Bell
10	151	Bernstein	Berns
11	129	Bissot	Bisso
12	169	Bloom	Bloom
13	185	Bull	Bull
14	187	Cabrio	Cabri
15	148	Cambrault	Cambr

Q11)


Welcome Page
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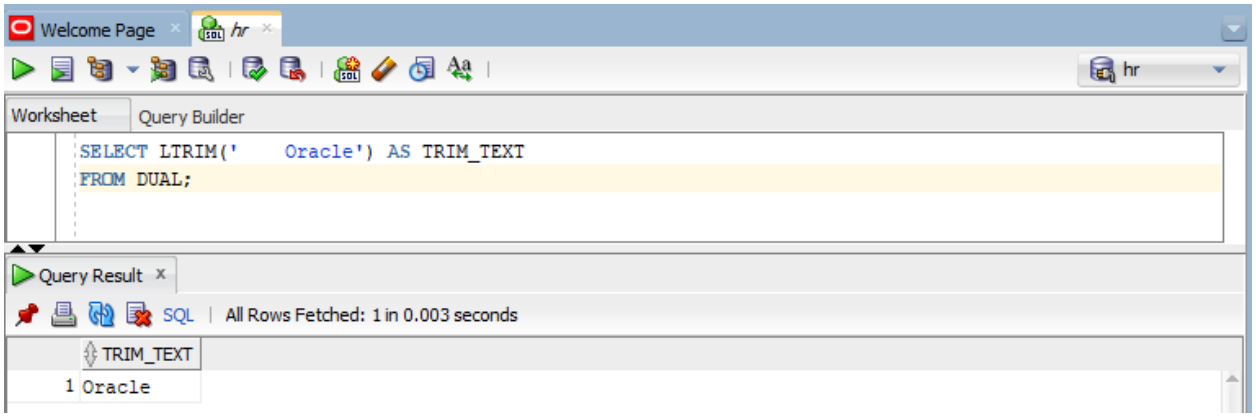
Worksheet
Query Builder
SELECT LPAD(FIRST_NAME, 15, '*')
FROM EMPLOYEES;
Query Result
SQL | Fetched 50 rows in 0.004 seconds
LPAD(FIRST_NAME,15,'*')
1 **********Ellen
2 *********Sundar
3 **********Mozhe
4 **********David
5 ********Hermann
6 *********Shelli
7 ***********Amit
8 ******Elizabeth
9 **********Sarah
10 **********David
11 **********Laura
12 *******Harrison
13 *********Alexis
14 ********Anthony
15 *********Gerald

Q12)


Welcome Page
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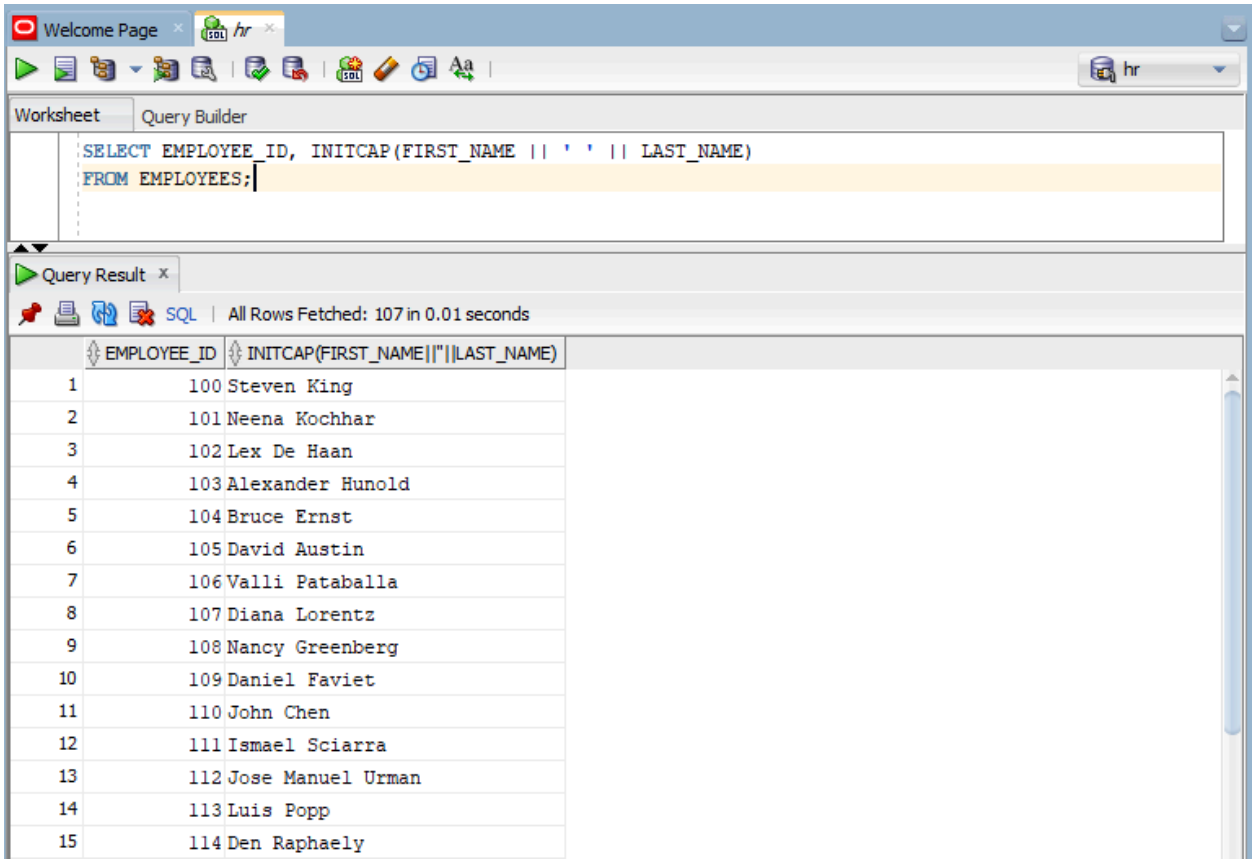
Worksheet
Query Builder
SELECT LTRIM('   Oracle') AS TRIM_TEXT
FROM DUAL;
Query Result
SQL | All Rows Fetched: 1 in 0.003 seconds
TRIM_TEXT
1 Oracle

Q13)


Welcome Page
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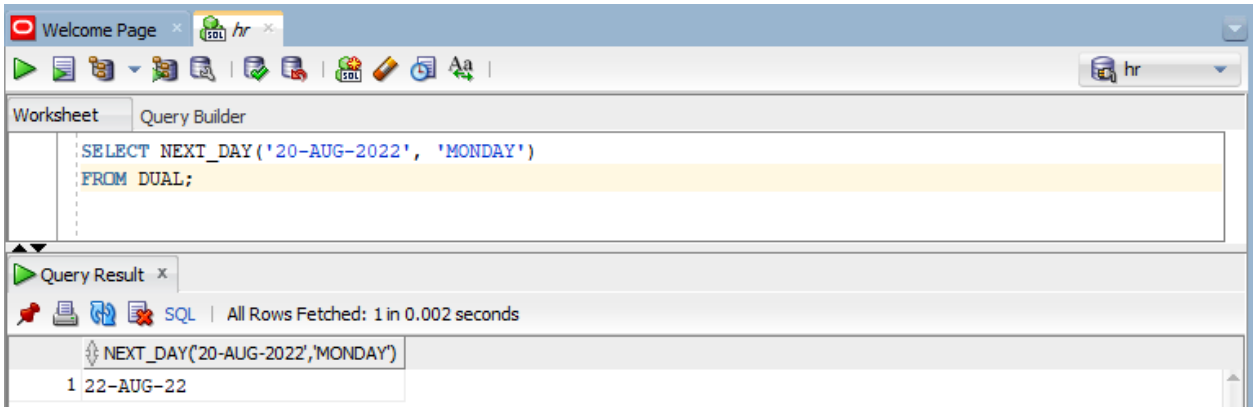
Worksheet
Query Builder
SELECT EMPLOYEE_ID, INITCAP(FIRST_NAME || ' ' || LAST_NAME)
FROM EMPLOYEES;
Query Result
SQL | All Rows Fetched: 107 in 0.01 seconds
EMPLOYEE_ID
INITCAP(FIRST_NAME||' '||LAST_NAME)
1 100 Steven King
2 101 Neena Kochhar
3 102 Lex De Haan
4 103 Alexander Hunold
5 104 Bruce Ernst
6 105 David Austin
7 106 Valli Pataballa
8 107 Diana Lorentz
9 108 Nancy Greenberg
10 109 Daniel Faviet
11 110 John Chen
12 111 Ismael Sciarra
13 112 Jose Manuel Urman
14 113 Luis Popp
15 114 Den Raphaely

Q14)


Welcome Page
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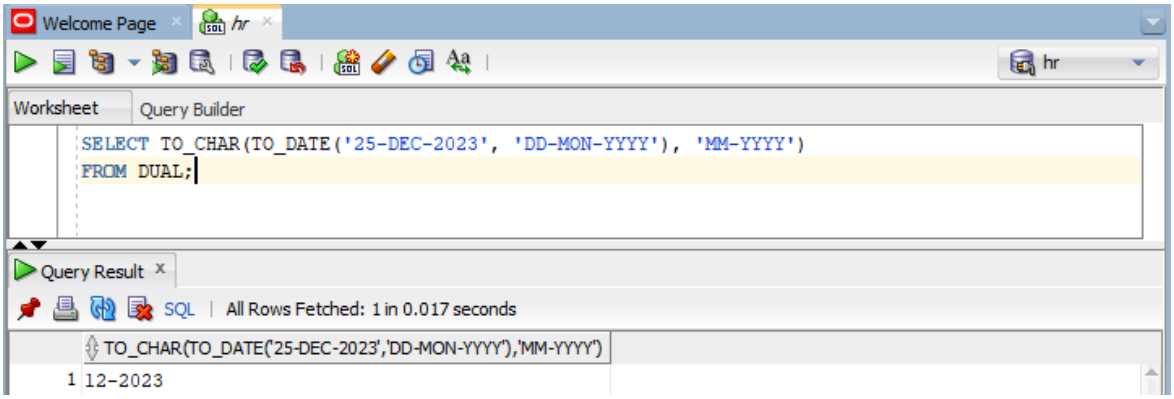
Worksheet
Query Builder
SELECT NEXT_DAY('20-AUG-2022', 'MONDAY')
FROM DUAL;
Query Result
SQL | All Rows Fetched: 1 in 0.002 seconds
NEXT_DAY('20-AUG-2022','MONDAY')
1 22-AUG-22

Q15)


Welcome Page
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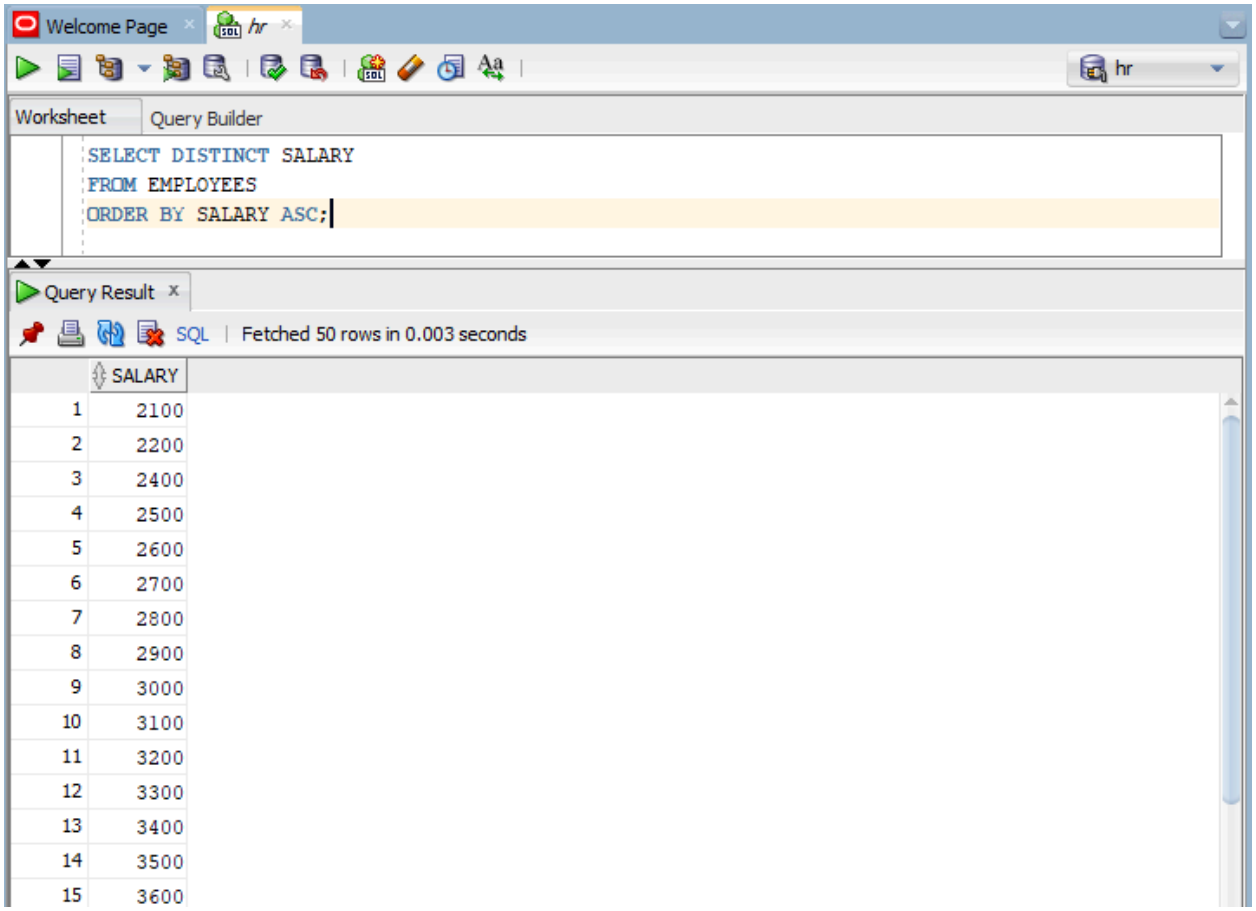
Worksheet
Query Builder
SELECT TO_CHAR(TO_DATE('25-DEC-2023', 'DD-MON-YYYY'), 'MM-YYYY')
FROM DUAL;
Query Result
SQL | All Rows Fetched: 1 in 0.017 seconds
TO_CHAR(TO_DATE('25-DEC-2023','DD-MON-YYYY'),'MM-YYYY')
1 12-2023

Q16)


Welcome Page
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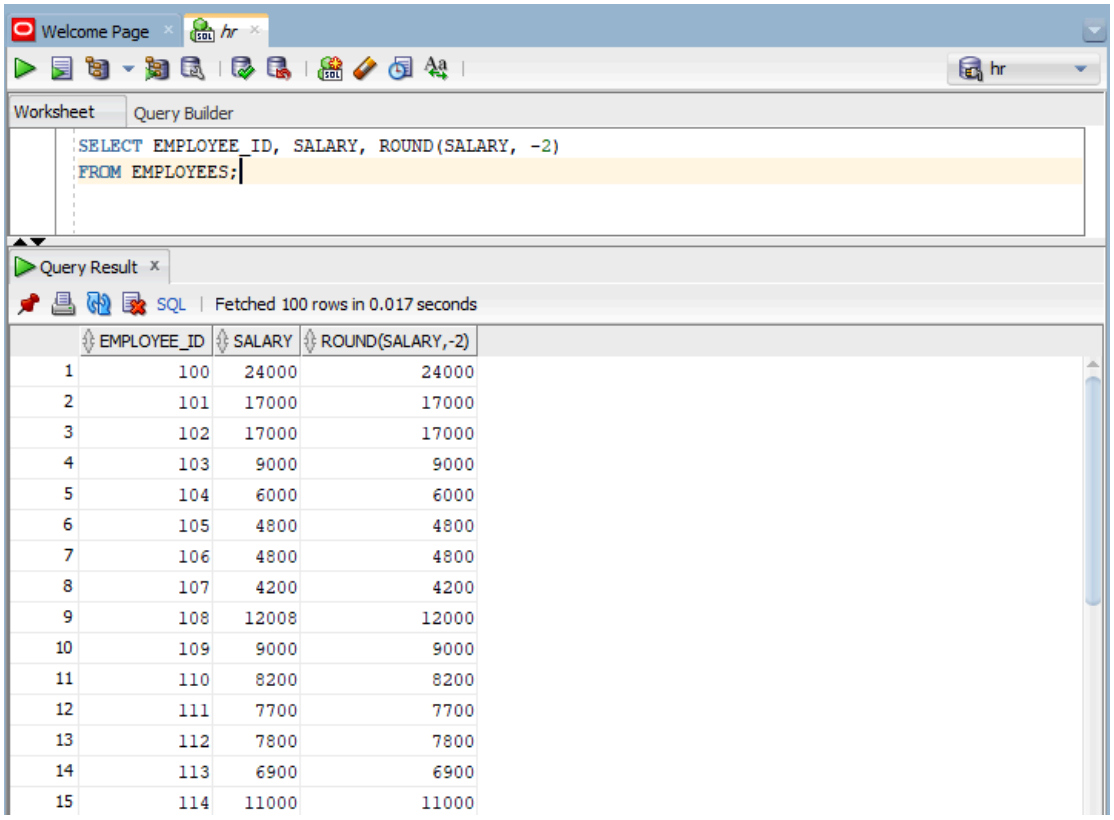
Worksheet
Query Builder
SELECT DISTINCT SALARY
FROM EMPLOYEES
ORDER BY SALARY ASC;
Query Result
SQL | Fetched 50 rows in 0.003 seconds
SALARY
1 2100
2 2200
3 2400
4 2500
5 2600
6 2700
7 2800
8 2900
9 3000
10 3100
11 3200
12 3300
13 3400
14 3500
15 3600

Q17)


Welcome Page
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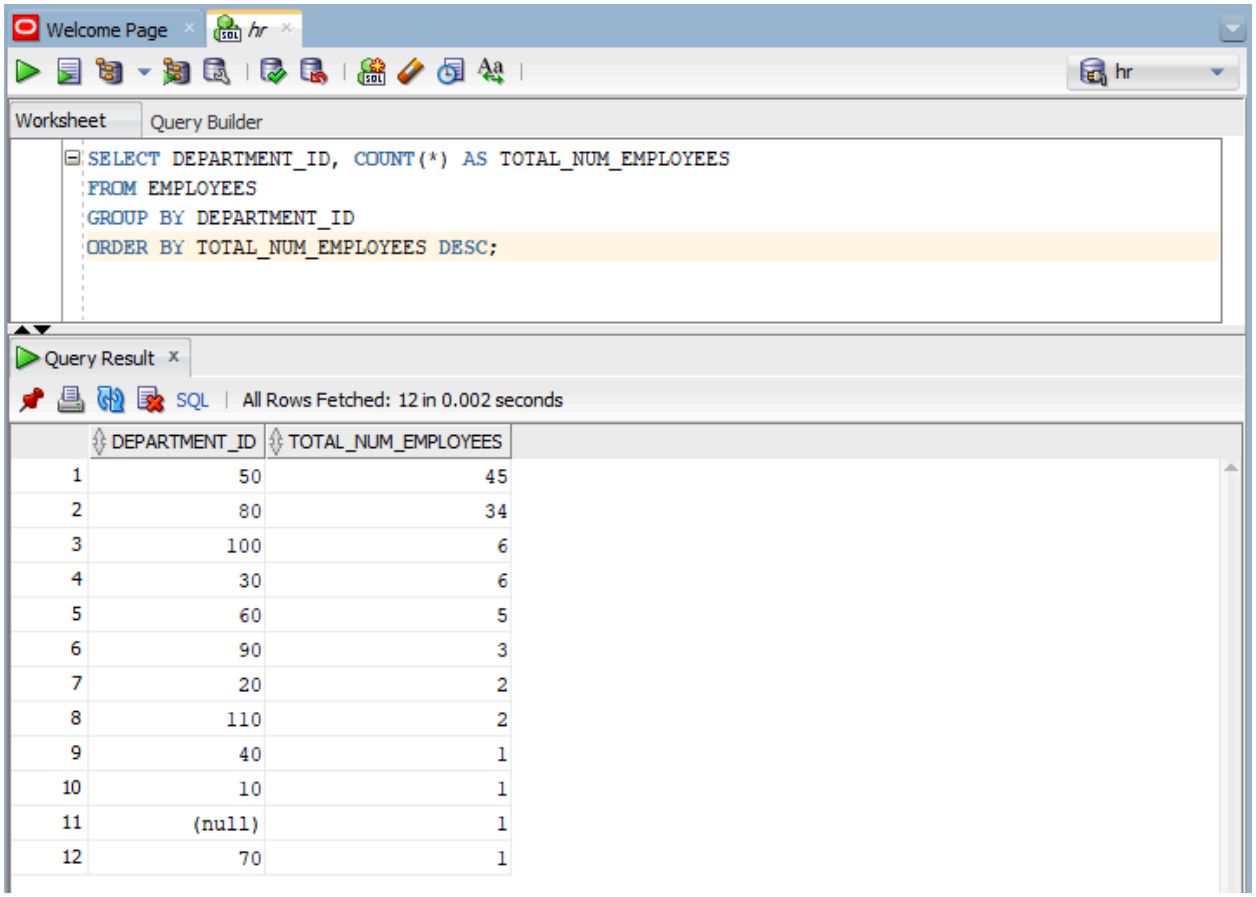
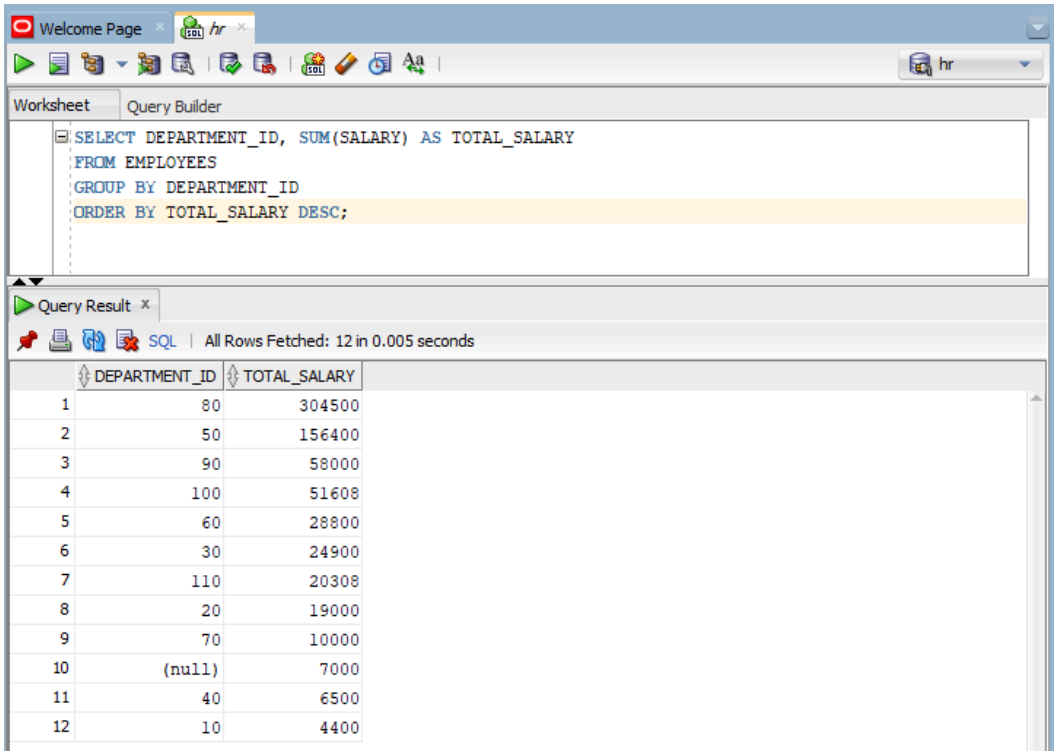
Worksheet
Query Builder
SELECT EMPLOYEE_ID, SALARY, ROUND(SALARY, -2)
FROM EMPLOYEES;
Query Result
SQL | Fetched 100 rows in 0.017 seconds
EMPLOYEE_ID SALARY ROUND(SALARY,-2)
1 100 24000 24000
2 101 17000 17000
3 102 17000 17000
4 103 9000 9000
5 104 6000 6000
6 105 4800 4800
7 106 4800 4800
8 107 4200 4200
9 108 12008 12000
10 109 9000 9000
11 110 8200 8200
12 111 7700 7700
13 112 7800 7800
14 113 6900 6900
15 114 11000 11000

Q18)



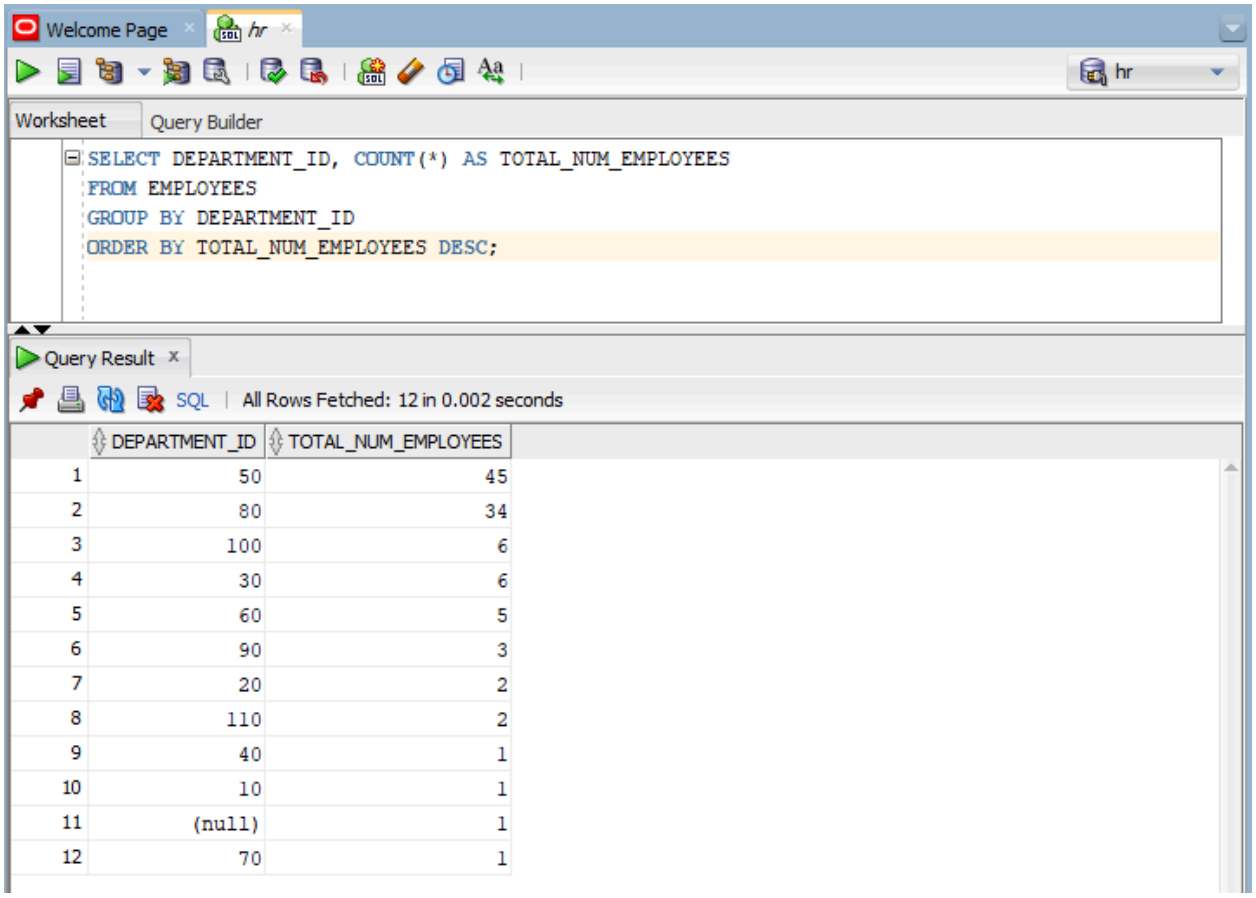
	DEPARTMENT_ID	TOTAL_NUM_EMPLOYEES
1	50	45
2	80	34
3	100	6
4	30	6
5	60	5
6	90	3
7	20	2
8	110	2
9	40	1
10	10	1
11	(null)	1
12	70	1

Q19)



	DEPARTMENT_ID	TOTAL_SALARY
1	80	304500
2	50	156400
3	90	58000
4	100	51608
5	60	28800
6	30	24900
7	110	20308
8	20	19000
9	70	10000
10	(null)	7000
11	40	6500
12	10	4400

Q20)



	DEPARTMENT_ID	TOTAL_NUM_EMPLOYEES
1	50	45
2	80	34
3	100	6
4	30	6
5	60	5
6	90	3
7	20	2
8	110	2
9	40	1
10	10	1
11	(null)	1
12	70	1