

Hafsa Rashid

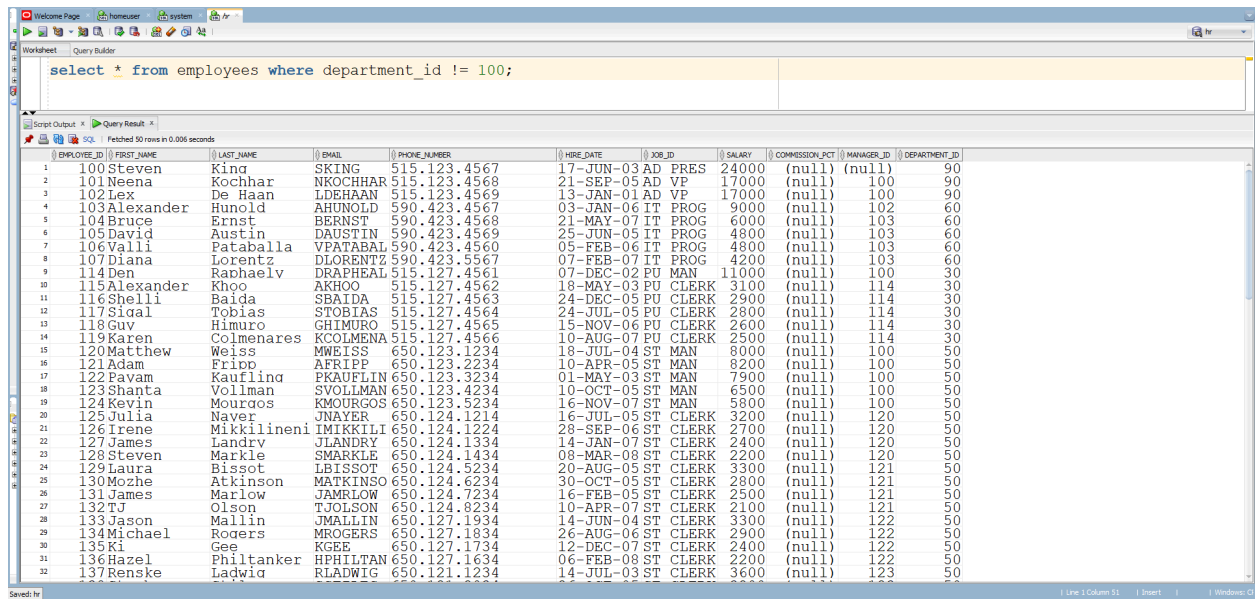
23K-0064

BS-AI 5A

DBS Lab # 1

IN-LAB TASKS

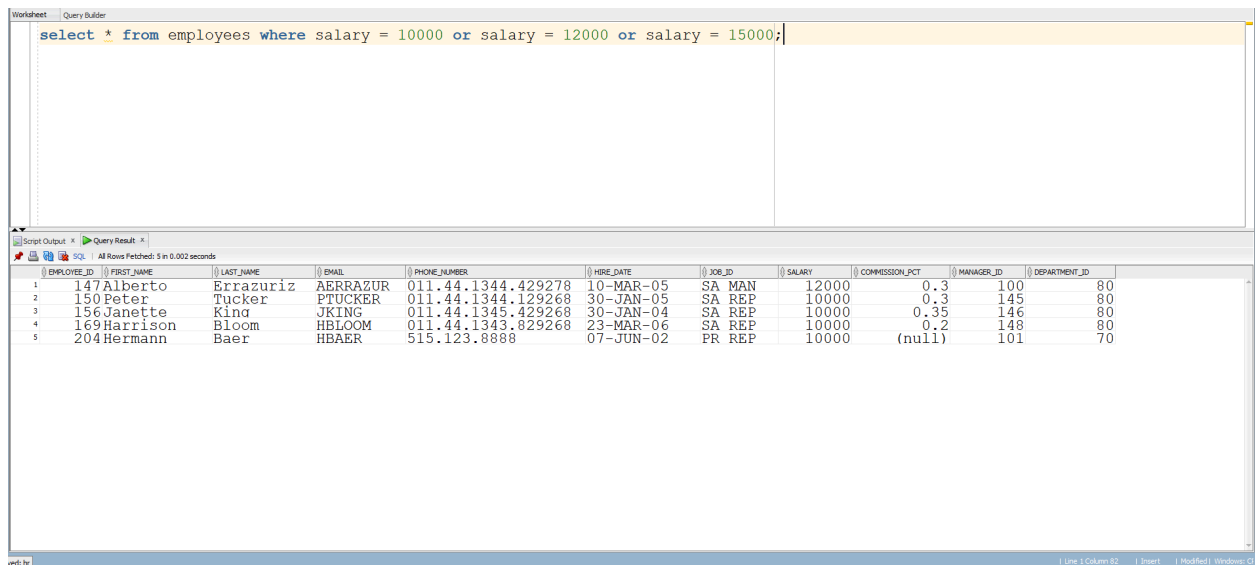
Task 1 :



The screenshot shows the Oracle SQL Developer interface. The 'Query Builder' tab is active, displaying the query: `select * from employees where department_id != 100;`. The 'Script Output' and 'Query Result' tabs are also visible. The 'Query Result' tab shows 30 rows of data from the 'employees' table, excluding those in department 100. The columns displayed are: EMPLOYEE_ID, FIRST_NAME, LAST_NAME, EMAIL, PHONE_NUMBER, HIRE_DATE, JOB_ID, SALARY, COMMISSION_PCT, MANAGER_ID, and DEPARTMENT_ID.

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	(null)	(null)	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	21-SEP-05	AD VP	17000	(null)	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	13-JAN-01	AD VP	17000	(null)	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	03-JAN-06	IT PROG	9000	(null)	102	60
104	Bruce	Ernst	BERNST	590.423.4568	21-MAY-07	IT PROG	6000	(null)	103	60
105	David	Austin	DAUSTIN	590.423.4569	25-JUN-05	IT PROG	4800	(null)	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	05-FEB-06	IT PROG	4800	(null)	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	07-FEB-07	IT PROG	4200	(null)	103	60
114	Den	Raphaely	DRAPHEAL	515.127.4361	07-DEC-02	PU MAN	11000	(null)	100	30
115	Alexander	Kho	AKHOO	515.127.4562	18-MAY-03	PU CLERK	3100	(null)	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	24-DEC-05	PU CLERK	2900	(null)	114	30
117	Sidal	Tobias	STOBIAS	515.127.4564	24-JUL-05	PU CLERK	2800	(null)	114	30
118	Guv	Himuro	GHIMURO	515.127.4565	15-NOV-06	PU CLERK	2600	(null)	114	30
119	Karen	Colmenares	KCOLMENA	515.127.4566	10-AUG-07	PU CLERK	2500	(null)	114	30
120	Matthew	Weiss	MWEISS	650.123.1234	18-JUL-04	ST MAN	8000	(null)	100	50
121	Adam	Frip	AFRIPP	650.123.2234	10-APR-05	ST MAN	8200	(null)	100	50
122	Pavam	Kaufling	PKAUFLIN	650.123.3234	01-MAY-03	ST MAN	7900	(null)	100	50
123	Shanta	Vollman	SVOLLMAN	650.123.4234	10-OCT-05	ST MAN	6500	(null)	100	50
124	Kevin	Mourgos	KMOURGOS	650.123.5234	16-NOV-07	ST MAN	5800	(null)	100	50
125	Julia	Nayer	JNAYER	650.124.1214	16-JUL-05	ST CLERK	3200	(null)	120	50
126	Irene	Mikkilineni	IMIKKILI	650.124.1224	28-SEP-06	ST CLERK	2700	(null)	120	50
127	James	Landry	JLANDRY	650.124.1334	14-JAN-07	ST CLERK	2400	(null)	120	50
128	Steven	Markle	SMARKLE	650.124.1434	08-MAR-08	ST CLERK	2200	(null)	120	50
129	Laura	Blissot	LBISSOT	650.124.5234	20-AUG-05	ST CLERK	3300	(null)	121	50
130	Mozhe	Atkinson	MATKINSO	650.124.6234	30-OCT-05	ST CLERK	2800	(null)	121	50
131	James	Marlow	JMARLOW	650.124.7234	16-FEB-05	ST CLERK	2500	(null)	121	50
132	TJ	Olson	TJOLSON	650.124.8234	10-APR-07	ST CLERK	2100	(null)	121	50
133	Jason	Mallin	JMALLIN	650.127.1934	14-JUN-04	ST CLERK	3300	(null)	122	50
134	Michael	Rogers	MROGERS	650.127.1834	26-AUG-06	ST CLERK	2900	(null)	122	50
135	Ki	Gee	KGEE	650.127.1734	12-DEC-07	ST CLERK	2400	(null)	122	50
136	Hazel	Philtanker	HPHILTAN	650.127.1634	06-FEB-08	ST CLERK	2200	(null)	122	50
137	Renske	Ladwig	RLADWIG	650.121.1234	14-JUL-03	ST CLERK	3600	(null)	123	50

Task 2:



The screenshot shows the Oracle SQL Developer interface. The 'Query Builder' tab is active, displaying the query: `select * from employees where salary = 10000 or salary = 12000 or salary = 15000;`. The 'Script Output' and 'Query Result' tabs are also visible. The 'Query Result' tab shows 5 rows of data from the 'employees' table where the salary is 10000, 12000, or 15000. The columns displayed are: EMPLOYEE_ID, FIRST_NAME, LAST_NAME, EMAIL, PHONE_NUMBER, HIRE_DATE, JOB_ID, SALARY, COMMISSION_PCT, MANAGER_ID, and DEPARTMENT_ID.

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
147	Alberto	Erazuriz	AERAZUR	011.44.1344.429278	10-MAR-05	SA MAN	12000	0.3	100	80
150	Peter	Tucker	PTUCKER	011.44.1344.129268	30-JAN-05	SA REP	10000	0.3	145	80
156	Janette	King	JKING	011.44.1345.429268	30-JAN-04	SA REP	10000	0.35	146	80
169	Harrison	Bloom	HBLOOM	011.44.1343.829268	23-MAR-06	SA REP	10000	0.2	148	80
204	Hermann	Baer	HBAER	515.123.8888	07-JUN-02	PR REP	10000	(null)	101	70

Task 3:

Worksheet

Query Builder

```
select first_name , salary from employees where salary <= 25000;
```

Script Output x Query Result x

All Rows Fetched: 107 in 0.01 seconds

	FIRST_NAME	SALARY
1	Steven	24000
2	Neena	17000
3	Lex	17000
4	Alexander	9000
5	Bruce	6000
6	David	4800
7	Valli	4800
8	Diana	4200
9	Nancy	12008
10	Daniel	9000
11	John	8200
12	Ismael	7700
13	Jose Manuel	7800
14	Luis	6900
15	Den	11000
16	Alexander	3100
17	Shelli	2900
18	Sigal	2800
19	Guv	2600
20	Karen	2500
21	Matthew	8000
22	Adam	8200
23	Pavam	7900
24	Shanta	6500
25	Kevin	5800
26	Julia	3200
27	Irene	2700
28	James	2400
29	Steven	2200
30	Laura	3300
31	Mozhe	2800
32	James	2500

Task 4:

Worksheet: Query Builder

```
select * from employees where department_id != 60;
```

Script Output x Query Result x

Fetched 50 rows in 0.006 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	100	Steven	King	SKING	515.123.4567	17-JUN-03	AD PRES	24000	(null)	(null)	90
2	101	Neena	Kochhar	NKOCHHAR	515.123.4568	21-SEP-05	AD VP	17000	(null)	100	90
3	102	Lex	De Haan	LDEHAAN	515.123.4569	13-JAN-01	AD VP	17000	(null)	100	90
4	108	Nancy	Greenberg	NGREENBE	515.124.4569	17-AUG-02	FI MGR	12008	(null)	101	100
5	109	Daniel	Faviet	DFAVIET	515.124.4169	16-AUG-02	FI ACCOUNT	9000	(null)	108	100
6	110	John	Chen	JCHEN	515.124.4269	28-SEP-05	FI ACCOUNT	8200	(null)	108	100
7	111	Ismael	Sciarra	ISCIARRA	515.124.4369	30-SEP-05	FI ACCOUNT	7700	(null)	108	100
8	112	Jose Manuel	Urman	JURMAN	515.124.4469	07-MAR-06	FI ACCOUNT	7800	(null)	108	100
9	113	Luis	Popp	LPPOP	515.124.4567	07-DEC-07	FI ACCOUNT	6900	(null)	108	100
10	114	Den	Raphealv	DRAPHEAL	515.127.4561	07-DEC-02	PU MAN	11000	(null)	100	30
11	115	Alexander	Khoo	AKHOO	515.127.4562	18-MAY-03	PU CLERK	3100	(null)	114	30
12	116	Shelli	Baida	SBAIDA	515.127.4563	24-DEC-05	PU CLERK	2900	(null)	114	30
13	117	Sigal	Tobias	STOBIAS	515.127.4564	24-JUL-05	PU CLERK	2800	(null)	114	30
14	118	Guv	Himuro	GHIHURO	515.127.4565	15-NOV-06	PU CLERK	2600	(null)	114	30
15	119	Karen	Colmenares	KCOLMENA	515.127.4566	10-AUG-07	PU CLERK	2500	(null)	114	30
16	120	Matthew	Weiss	MWEISS	650.123.1234	18-JUL-04	ST MAN	8000	(null)	100	50
17	121	Adam	Frip	AFRIPP	650.123.2234	10-APR-05	ST MAN	8200	(null)	100	50
18	122	Pavam	Kaufling	PKAUFLIN	650.123.3234	01-MAY-03	ST MAN	7900	(null)	100	50
19	123	Shanta	Vollman	SVOLLMAN	650.123.4234	10-OCT-05	ST MAN	6500	(null)	100	50
20	124	Kevin	Mourgos	KMOURGOS	650.123.5234	16-NOV-07	ST MAN	5800	(null)	100	50
21	125	Julia	Nayer	JNAYER	650.124.1214	16-JUL-05	ST CLERK	3200	(null)	120	50
22	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	28-SEP-06	ST CLERK	2700	(null)	120	50
23	127	James	Landry	JLANDRY	650.124.1334	14-JAN-07	ST CLERK	2400	(null)	120	50
24	128	Steven	Markle	SMARKLE	650.124.1434	08-MAR-08	ST CLERK	2200	(null)	120	50
25	129	Laura	Bissot	LBISSOT	650.124.5234	20-AUG-05	ST CLERK	3300	(null)	121	50
26	130	Mozhe	Atkinson	MATKINSO	650.124.6234	30-OCT-05	ST CLERK	2800	(null)	121	50
27	131	James	Marlow	JMARLOW	650.124.7234	16-FEB-05	ST CLERK	2500	(null)	121	50
28	132	TJ	Olson	TJOLSON	650.124.8234	10-APR-07	ST CLERK	2100	(null)	121	50
29	133	Jason	Mallin	JMALLIN	650.127.1934	14-JUN-04	ST CLERK	3300	(null)	122	50
30	134	Michael	Rogers	MROGERS	650.127.1834	26-AUG-06	ST CLERK	2900	(null)	122	50
31	135	Kl	Gee	KGEE	650.127.1734	12-DEC-07	ST CLERK	2400	(null)	122	50
32	136	Hazel	Philtanker	PHILTANKER	650.127.1634	06-FEB-08	ST CLERK	2200	(null)	122	50

Line 1 Column 31 | Insert | Modified | Show SQL

Task 5:

Worksheet | Query Builder

select * from employees where department_id between 60 and 80;

Script Output | Query Result

All Rows Fetched: 40 in 0.009 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	103	Alexander	Hunold	AHUNOLD	590.423.4567	03-JAN-06	IT PROG	9000	(null)	102	60
2	104	Bruce	Ernst	BERNST	590.423.4568	21-MAY-07	IT PROG	6000	(null)	103	60
3	105	David	Austin	DAUSTIN	590.423.4569	25-JUN-05	IT PROG	4800	(null)	103	60
4	106	Valli	Pataballa	VPATABAL	590.423.4560	05-FEB-06	IT PROG	4800	(null)	103	60
5	107	Diana	Lorentz	DLORENTZ	590.423.5567	07-FEB-07	IT PROG	4200	(null)	103	60
6	145	John	Russell	JRUSSEL	011.44.1344.429268	01-OCT-04	SA MAN	14000	0.4	100	80
7	146	Karen	Partners	KPARTNER	011.44.1344.467268	05-JAN-05	SA MAN	13500	0.3	100	80
8	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	10-MAR-05	SA MAN	12000	0.3	100	80
9	148	Gerald	Cambraut	GCAMBRAU	011.44.1344.619268	15-OCT-07	SA MAN	11000	0.3	100	80
10	149	Eleni	Zlotkev	EZLOTKEV	011.44.1344.429018	29-JAN-08	SA MAN	10500	0.2	100	80
11	150	Peter	Tucker	PTUCKER	011.44.1344.129268	30-JAN-05	SA REP	10000	0.3	145	80
12	151	David	Bernstein	DBERNSTE	011.44.1344.345268	24-MAR-05	SA REP	9500	0.25	145	80
13	152	Peter	Hall	PHALL	011.44.1344.478968	20-AUG-05	SA REP	9000	0.25	145	80
14	153	Christopher	Olsen	COLSEN	011.44.1344.498718	30-MAR-06	SA REP	8000	0.2	145	80
15	154	Nanette	Cambraut	NCAMBRAU	011.44.1344.987668	09-DEC-06	SA REP	7500	0.2	145	80
16	155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	23-NOV-07	SA REP	7000	0.15	145	80
17	156	Janette	Kind	JKING	011.44.1345.429268	30-JAN-04	SA REP	10000	0.35	146	80
18	157	Patrick	Sully	PSULLY	011.44.1345.929268	04-MAR-04	SA REP	9500	0.35	146	80
19	158	Allan	McEwen	AMCEWEN	011.44.1345.829268	01-AUG-04	SA REP	9000	0.35	146	80
20	159	Lindsev	Smith	LSMITH	011.44.1345.729268	10-MAR-05	SA REP	8000	0.3	146	80
21	160	Louise	Doran	LDORAN	011.44.1345.629268	15-DEC-05	SA REP	7500	0.3	146	80
22	161	Sarath	Sewall	SSEWALL	011.44.1345.529268	03-NOV-06	SA REP	7000	0.25	146	80
23	162	Clara	Vishnev	CVISHNEY	011.44.1346.129268	11-NOV-05	SA REP	10500	0.25	147	80
24	163	Danielle	Greene	DGREENE	011.44.1346.229268	19-MAR-07	SA REP	9500	0.15	147	80
25	164	Mattea	Marvins	MMARVINS	011.44.1346.329268	24-JAN-08	SA REP	7200	0.1	147	80
26	165	David	Lee	DLEE	011.44.1346.529268	23-FEB-08	SA REP	6800	0.1	147	80
27	166	Sundar	Ande	SANDE	011.44.1346.629268	24-MAR-08	SA REP	6400	0.1	147	80
28	167	Amit	Banda	ABANDA	011.44.1346.729268	21-APR-08	SA REP	6200	0.1	147	80
29	168	Lisa	Ozer	LOZER	011.44.1343.929268	11-MAR-05	SA REP	11500	0.25	148	80
30	169	Harrison	Bloom	HBLOOM	011.44.1343.829268	23-MAR-06	SA REP	10000	0.2	148	80
31	170	Tayler	Fox	TFOX	011.44.1343.729268	24-JAN-06	SA REP	9600	0.2	148	80
32	171	William	Scott	WSCOTT	011.44.1342.629268	23-FEB-07	SA REP	7400	0.15	148	80

Saved: 19 | Line 1 Column 63 | Insert | Modified | Windows C

Task 6:

Worksheet | Query Builder

select * from DEPARTMENTS;

Script Output | Query Result

All Rows Fetched: 27 in 0.003 seconds

	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
1	10	Administration	200	1700
2	20	Marketing	201	1800
3	30	Purchasing	114	1700
4	40	Human Resources	203	2400
5	50	Shipping	121	1500
6	60	IT	103	1400
7	70	Public Relations	204	2700
8	80	Sales	145	2500
9	90	Executive	100	1700
10	100	Finance	108	1700
11	110	Accounting	205	1700
12	120	Treasury	(null)	1700
13	130	Corporate Tax	(null)	1700
14	140	Control And Credit	(null)	1700
15	150	Shareholder Services	(null)	1700
16	160	Benefits	(null)	1700
17	170	Manufacturing	(null)	1700
18	180	Construction	(null)	1700
19	190	Contracting	(null)	1700
20	200	Operations	(null)	1700
21	210	IT Support	(null)	1700
22	220	NOC	(null)	1700
23	230	IT Helpdesk	(null)	1700
24	240	Government Sales	(null)	1700
25	250	Retail Sales	(null)	1700
26	260	Recruiting	(null)	1700
27	270	Payroll	(null)	1700

Saved: 19 | Line 1 Column 27 | Insert | Modified | Windows C

Task 7:

The screenshot shows the SQL Developer Query Builder interface. The query text in the main editor is: `select first_name from EMPLOYEES where first_name = 'steven';`. The 'Script Output' tab is active, showing the message: 'All Rows Fetched: 0 in 0.001 seconds'. The 'Query Result' tab is also visible, showing a table with one column: `FIRST_NAME`.

Task 8:

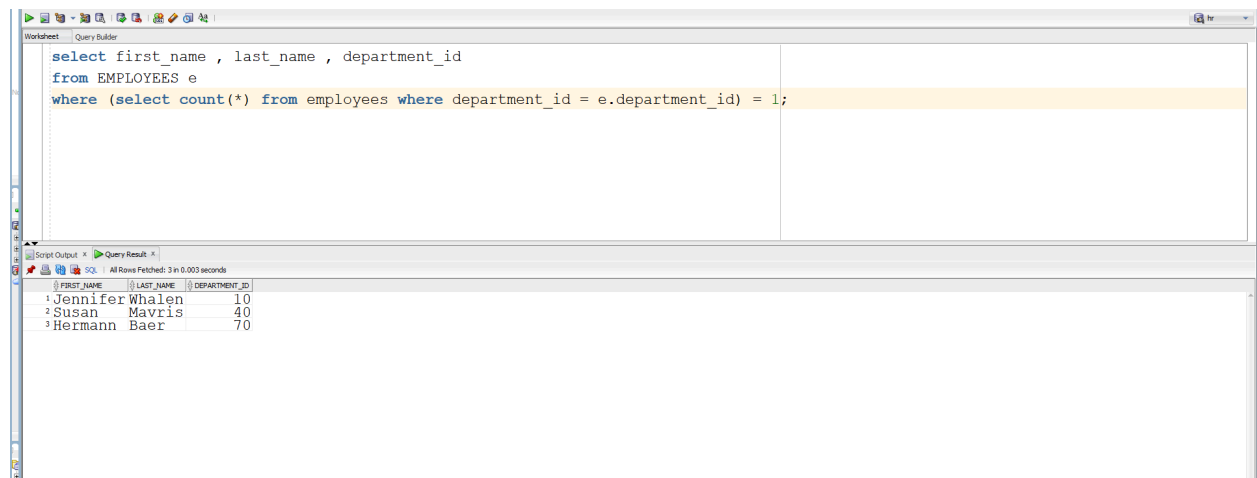
The screenshot shows the SQL Developer Query Builder interface. The query text in the main editor is: `select first_name, last_name from employees where salary between 15000 and 25000 and department_id = 80;`. The 'Script Output' tab is active, showing the message: 'All Rows Fetched: 0 in 0.002 seconds'. The 'Query Result' tab is also visible, showing a table with two columns: `FIRST_NAME` and `LAST_NAME`.

Task 9:

The screenshot shows the SQL Developer Query Builder interface. The query text in the main editor is: `select first_name, last_name from employees where salary < any (select salary from employees where department_id=100);`. The 'Script Output' tab is active, showing the message: 'Fetched 50 rows in 0.005 seconds'. The 'Query Result' tab is also visible, showing a table with two columns: `FIRST_NAME` and `LAST_NAME`. The table contains 50 rows of employee data.

FIRST_NAME	LAST_NAME
TJ	Olson
Steven	Markle
Hazel	Philtanker
James	Landrv
Ki	Gee
Karen	Colmenares
James	Marlow
Joshua	Patel
Peter	Vargas
Martha	Sullivan
Randall	Perkins
Guv	Himuro
Randall	Matos
Donald	OConnell
Douglas	Grant
Irene	Mikkilineni
John	Seo
Sigal	Tobias
Mozhe	Atkinson
Girard	Geoni
Vance	Jones
Shelli	Balda
Michael	Rodgers
Timothy	Gates
Anthony	Cabrio
Kevin	Feenev
Alexander	Khoo
Curtis	Davies
Jean	Fleaur
Alana	Walsh
Tyler	Neave

Task 10:



The screenshot shows the Oracle SQL Developer interface. The main window is titled "Query Builder" and contains the following SQL query:

```
select first_name , last_name , department_id
from EMPLOYEES e
where (select count(*) from employees where department_id = e.department_id) = 1;
```

Below the query editor, the "Query Result" tab is active, displaying the results of the query. The results are shown in a table with three columns: FIRST_NAME, LAST_NAME, and DEPARTMENT_ID. The table contains three rows of data:

	FIRST_NAME	LAST_NAME	DEPARTMENT_ID
1	Jennifer	Whalen	10
2	Susan	Mavris	40
3	Hermann	Baer	70