

Database Systems

LAB#02



23K-2001

BCS-5J

Q1:

```
SELECT *  
FROM employees_replica  
WHERE salary BETWEEN 4000 AND 9000;
```

Oracle SQL Developer: hr

File Edit View Navigate Run Source Team Tools Window Help

Connections

- Tables (Filtered)
 - COUNTRIES
 - CUSTOMERS
 - CUSTOMERSS
 - DEPARTMENTS
 - EMPLOYEES
 - EMPL_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - EMPLOYEES_REPLICA
 - EMPLOYEE_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - PHONE_NUMBER
 - HIRE_DATE
 - JOB_ID
 - SALARY
 - COMMISSION_PCT
 - MANAGER_ID

Worksheet Query Builder

```
SELECT *  
FROM employees_replica  
WHERE salary BETWEEN 4000 AND 9000;
```

Reports

- All Reports
 - Analytic View Reports
 - Data Dictionary Reports
 - Data Modeler Reports
 - OLAP Reports
 - TimesTen Reports
 - User Defined Reports

Query Result x

All Rows Fetched: 42 in 0.025 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	109	Daniel	Faviet	DFAVIET	515.124.4169	16-AUG-02	FI_ACCOUNT	9000	(null)	108	100
7	110	John	Chen	JCHEN	515.124.4269	28-SEP-05	FI_ACCOUNT	8200	(null)	108	100
8	111	Ismael	Sciarra	ISCIARRA	515.124.4369	30-SEP-05	FI_ACCOUNT	7700	(null)	108	100
9	112	Jose Manuel	Urman	JMURMAN	515.124.4469	07-MAR-06	FI_ACCOUNT	7800	(null)	108	100
10	113	Luis	Popp	LPOPP	515.124.4567	07-DEC-07	FI_ACCOUNT	6900	(null)	108	100
11	120	Matthew	Weiss	MWEISS	650.123.1234	18-JUL-04	ST_MAN	8000	(null)	100	50
12	121	Adam	Fripp	AFRIPP	650.123.2234	10-APR-05	ST_MAN	8200	(null)	100	50
13	122	Payam	Kaufling	PKAUFLIN	650.123.3234	01-MAY-03	ST_MAN	7900	(null)	100	50
14	123	Shanta	Vollman	SVOLLMAN	650.123.4234	10-OCT-05	ST_MAN	6500	(null)	100	50
15	124	Kevin	Mourgos	KMOURGOS	650.123.5234	16-NOV-07	ST_MAN	5800	(null)	100	50
16	152	Peter	Hall	PHALL	011.44.1344.478968	20-AUG-05	SA_REP	9000	0.25	145	80

Q2:

```
SELECT *  
FROM employees_replica  
WHERE hire_date > '01-JAN-2006';
```

Oracle SQL Developer : hr

File Edit View Navigate Run Source Team Tools Window Help

Connections

- Tables (Filtered)
 - COUNTRIES
 - CUSTOMERS
 - CUSTOMERSS
 - DEPARTMENTS
 - EMPLOYEES
 - EMPL_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - EMPLOYEES_REPLICA
 - EMPLOYEE_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - PHONE_NUMBER
 - HIRE_DATE
 - JOB_ID
 - SALARY
 - COMMISSION_PCT
 - MANAGER_ID

Worksheet

```
SELECT *  
FROM employees_replica  
WHERE hire_date > '01-JAN-2006';
```

Query Result

SQL | Fetched 50 rows in 0.014 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	106	Valli	Pataballa	VPATABAL	590.423.4560	05-FEB-06	IT_PROG	4800	(null)	103	60
4	107	Diana	Lorentz	DLORENTZ	590.423.5567	07-FEB-07	IT_PROG	4200	(null)	103	60
5	112	Jose Manuel	Urman	JMURMAN	515.124.4469	07-MAR-06	FI_ACCOUNT	7800	(null)	108	100
6	113	Luis	Popp	LPOPP	515.124.4567	07-DEC-07	FI_ACCOUNT	6900	(null)	108	100
7	118	Guy	Himuro	GHIMURO	515.127.4565	15-NOV-06	PU_CLERK	2600	(null)	114	30
8	119	Karen	Colmenares	KCOLMENAR	515.127.4566	10-AUG-07	PU_CLERK	2500	(null)	114	30
9	124	Kevin	Mourgos	KMOURGOS	650.123.5234	16-NOV-07	ST_MAN	5800	(null)	100	50
10	126	Irene	Mikkilineni	IMIKKILIN	650.124.1224	28-SEP-06	ST_CLERK	2700	(null)	120	50
11	127	James	Landry	JLANDRY	650.124.1334	14-JAN-07	ST_CLERK	2400	(null)	120	50
12	128	Steven	Markle	SMARKLE	650.124.1434	08-MAR-08	ST_CLERK	2200	(null)	120	50
13	132	TJ	Olson	TJOLSON	650.124.8234	10-APR-07	ST_CLERK	2100	(null)	121	50
14	134	Michael	Rogers	MROGERS	650.127.1834	26-AUG-06	ST_CLERK	2900	(null)	122	50
15	135	Ki	Gee	KGEE	650.127.1734	12-DEC-07	ST_CLERK	2400	(null)	122	50
16	136	Hazel	Philtanker	HPHILTAN	650.127.1634	06-FEB-08	ST_CLERK	2200	(null)	122	50

Q3:

```
SELECT *  
FROM employees_replica  
WHERE job_id IN ('SA_REP', 'ST_CLERK');
```

Oracle SQL Developer: hr

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Connections

- Tables (Filtered)
 - COUNTRIES
 - CUSTOMERS
 - CUSTOMERSS
 - DEPARTMENTS
 - EMPLOYEES
 - EMPL_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - EMPLOYEES_REPLICA
 - EMPLOYEE_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - PHONE_NUMBER
 - HIRE_DATE
 - JOB_ID
 - SALARY
 - COMMISSION_PCT
 - MANAGER_ID

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Worksheet Query Builder

```
SELECT *  
FROM employees_replica  
WHERE job_id IN ('SA_REP', 'ST_CLERK');
```

Query Result x

SQL | Fetched 50 rows in 0.01 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	125	Julia	Nayer	JNAYER	650.124.1214	16-JUL-05	ST_CLERK	3200	(null)	120	50
2	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	28-SEP-06	ST_CLERK	2700	(null)	120	50
3	127	James	Landry	JLANDRY	650.124.1334	14-JAN-07	ST_CLERK	2400	(null)	120	50
4	128	Steven	Markle	SMARKLE	650.124.1434	08-MAR-08	ST_CLERK	2200	(null)	120	50
5	129	Laura	Bissot	LBISSOT	650.124.5234	20-AUG-05	ST_CLERK	3300	(null)	121	50
6	130	Mozhe	Atkinson	MATKINSO	650.124.6234	30-OCT-05	ST_CLERK	2800	(null)	121	50
7	131	James	Marlow	JAMRLOW	650.124.7234	16-FEB-05	ST_CLERK	2500	(null)	121	50
8	132	TJ	Olson	TJOLSON	650.124.8234	10-APR-07	ST_CLERK	2100	(null)	121	50
9	133	Jason	Mallin	JMALLIN	650.127.1934	14-JUN-04	ST_CLERK	3300	(null)	122	50
10	134	Michael	Rogers	MROGERS	650.127.1834	26-AUG-06	ST_CLERK	2900	(null)	122	50
11	135	Ki	Gee	KGEE	650.127.1734	12-DEC-07	ST_CLERK	2400	(null)	122	50
12	136	Hazel	Philtanker	HPHILTAN	650.127.1634	06-FEB-08	ST_CLERK	2200	(null)	122	50
13	137	Renske	Ladwig	RLADWIG	650.121.1234	14-JUL-03	ST_CLERK	3600	(null)	123	50
14	138	Stephen	Stiles	SSTILES	650.121.2034	26-OCT-05	ST_CLERK	3200	(null)	123	50
15	139	John	Seo	JSEO	650.121.2019	12-FEB-06	ST_CLERK	2700	(null)	123	50
16	140	Joshua	Patel	JPADEL	650.121.1834	06-APR-06	ST_CLERK	2500	(null)	123	50

Q4:

```
SELECT *  
FROM employees_replica  
WHERE last_name LIKE '%n';
```

Oracle SQL Developer : hr

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Connections

Tables (Filtered)

- COUNTRIES
- CUSTOMERS
- CUSTOMERSS
- DEPARTMENTS
- EMPLOYEES
 - EMPL_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
- EMPLOYEES_REPLICA
 - EMPLOYEE_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - PHONE_NUMBER
 - HIRE_DATE
 - JOB_ID
 - SALARY
 - COMMISSION_PCT
 - MANAGER_ID

Worksheet Query Builder

```
SELECT *  
FROM employees_replica  
WHERE last_name LIKE '%n';
```

Reports

All Reports

- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Query Result x

SQL | All Rows Fetched: 19 in 0.008 seconds

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	102	Lex	De Haan	LDEHAAN	515.123.4569	13-JAN-01	AD_VP	17000	(null)	100	90
2	105	David	Austin	DAUSTIN	590.423.4569	25-JUN-05	IT_PROG	4800	(null)	103	60
3	110	John	Chen	JCHEN	515.124.4269	28-SEP-05	FI_ACCOUNT	8200	(null)	108	100
4	112	Jose Manuel	Urman	JMURMAN	515.124.4469	07-MAR-06	FI_ACCOUNT	7800	(null)	108	100
5	123	Shanta	Vollman	SVOLLMAN	650.123.4234	10-OCT-05	ST_MAN	6500	(null)	100	50
6	130	Mozhe	Atkinson	MATKINSO	650.124.6234	30-OCT-05	ST_CLERK	2800	(null)	121	50
7	132	TJ	Olson	TJOLSON	650.124.8234	10-APR-07	ST_CLERK	2100	(null)	121	50
8	133	Jason	Mallin	JMALLIN	650.127.1934	14-JUN-04	ST_CLERK	3300	(null)	122	50
9	151	David	Bernstein	DBERNSTE	011.44.1344.345268	24-MAR-05	SA_REP	9500	0.25	145	80
10	153	Christopher	Olsen	COLSEN	011.44.1344.498718	30-MAR-06	SA_REP	8000	0.2	145	80
11	158	Allan	McEwen	AMCEWEN	011.44.1345.829268	01-AUG-04	SA_REP	9000	0.35	146	80
12	160	Louise	Doran	LDORAN	011.44.1345.629268	15-DEC-05	SA_REP	7500	0.3	146	80
13	175	Alyssa	Hutton	AHUTTON	011.44.1644.429266	19-MAR-05	SA_REP	8800	0.25	149	80
14	177	Jack	Livingston	JLIVINGS	011.44.1644.429264	23-APR-06	SA_REP	8400	0.2	149	80
15	179	Charles	Johnson	CJOHNSON	011.44.1644.429262	04-JAN-08	SA_REP	6200	0.1	149	80
16	182	Martha	Sullivan	MSULLIVA	650.507.9878	21-JUN-07	SH_CLERK	2500	(null)	120	50

Q5:

```
SELECT *  
FROM employees_replica  
WHERE department_id <> 50;
```

Oracle SQL Developer : hr

File Edit View Navigate Run Source Team Tools Window Help

Connections

- Tables (Filtered)
 - COUNTRIES
 - CUSTOMERS
 - CUSTOMERSS
 - DEPARTMENTS
 - EMPLOYEES
 - EMPL_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - EMPLOYEES_REPLICA
 - EMPLOYEE_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - PHONE_NUMBER
 - HIRE_DATE
 - JOB_ID
 - SALARY
 - COMMISSION_PCT
 - MANAGER_ID

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Worksheet Query Builder

```
SELECT *  
FROM employees_replica  
WHERE department_id <> 50;
```

Query Result x

SQL | Fetched 50 rows in 0.011 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	103	Alexander	Hunold	AHUNOLD	590.423.4567	03-JAN-06	IT_PROG	9000	(null)	102	60
5	104	Bruce	Ernst	BERNST	590.423.4568	21-MAY-07	IT_PROG	6000	(null)	103	60
6	105	David	Austin	DAUSTIN	590.423.4569	25-JUN-05	IT_PROG	4800	(null)	103	60
7	106	Valli	Pataballa	VPATABAL	590.423.4560	05-FEB-06	IT_PROG	4800	(null)	103	60
8	107	Diana	Lorentz	DLORENTZ	590.423.5567	07-FEB-07	IT_PROG	4200	(null)	103	60
9	108	Nancy	Greenberg	NGREENBE	515.124.4569	17-AUG-02	FI_MGR	12008	(null)	101	100
10	109	Daniel	Faviet	DFAVIET	515.124.4169	16-AUG-02	FI_ACCOUNT	9000	(null)	108	100
11	110	John	Chen	JCHEN	515.124.4269	28-SEP-05	FI_ACCOUNT	8200	(null)	108	100
12	111	Ismael	Sciarra	ISCIARRA	515.124.4369	30-SEP-05	FI_ACCOUNT	7700	(null)	108	100
13	112	Jose Manuel	Urman	JMURMAN	515.124.4469	07-MAR-06	FI_ACCOUNT	7800	(null)	108	100
14	113	Luis	Popp	LPOPP	515.124.4567	07-DEC-07	FI_ACCOUNT	6900	(null)	108	100
15	114	Den	Raphaely	DRAPHEAL	515.127.4561	07-DEC-02	PU_MAN	11000	(null)	100	30
16	115	Alexander	Khoo	AKHOO	515.127.4562	18-MAY-03	PU_CLERK	3100	(null)	114	30

Q6:

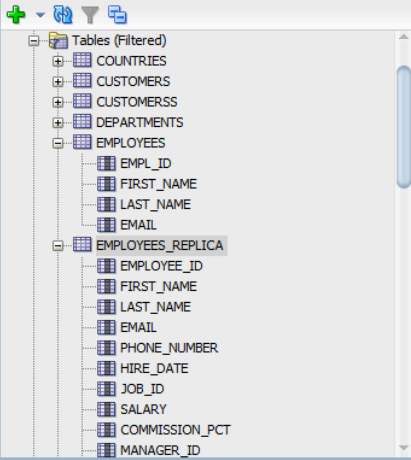
```
SELECT *  
FROM employees_replica  
WHERE first_name LIKE 'S%' AND salary > 6000;
```

Oracle SQL Developer : hr

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Connections



Reports



Welcome Page homeuser hr EMPLOYEES_REPLICA



Worksheet Query Builder

```
SELECT *  
FROM employees_replica  
WHERE first_name LIKE 'S%' AND salary > 6000;
```

Query Result

SQL | All Rows Fetched: 7 in 0.007 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	123	Shanta	Vollman	SVOLLMAN	650.123.4234	10-OCT-05	ST_MAN	6500	(null)	100	50
3	161	Sarath	Sewall	SSEWALL	011.44.1345.529268	03-NOV-06	SA_REP	7000	0.25	146	80
4	166	Sundar	Ande	SANDE	011.44.1346.629268	24-MAR-08	SA_REP	6400	0.1	147	80
5	173	Sundita	Kumar	SKUMAR	011.44.1343.329268	21-APR-08	SA_REP	6100	0.1	148	80
6	203	Susan	Mavris	SMAVRIS	515.123.7777	07-JUN-02	HR_REP	6500	(null)	101	40
7	205	Shelley	Higgins	SHIGGINS	515.123.8080	07-JUN-02	AC_MGR	12008	(null)	101	110

Q7:

```
SELECT *  
FROM employees_replica  
WHERE salary > 10000 OR job_id='FI_ACCOUNT';
```

Oracle SQL Developer : hr

File Edit View Navigate Run Source Team Tools Window Help

Connections

Tables (Filtered)
COUNTRIES
CUSTOMERS
CUSTOMERS
DEPARTMENTS
EMPLOYEES
EMPLOYEES_REPLICA
EMPLOYEE_ID
FIRST_NAME
LAST_NAME
EMAIL
PHONE_NUMBER
HIRE_DATE
JOB_ID
SALARY
COMMISSION_PCT
MANAGER_ID

Reports

- All Reports
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- TimesTen Reports
- User Defined Reports


Welcome Page homeuser hr EMPLOYEES_REPLICA

Worksheet Query Builder

```
SELECT *  
FROM employees_replica  
WHERE salary > 10000 OR job_id='FI_ACCOUNT';
```

Query Result

Query Result x

 | All Rows Fetched: 20 in 0.007 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	JMURMAN	515.124.4469	07-MAR-06	FI_ACCOUNT	7800	(null)	108	100
9	113	Luis	Popp	LPOPP	515.124.4567	07-DEC-07	FI_ACCOUNT	6900	(null)	108	100
10	114	Den	Raphaely	DRAPHEAL	515.127.4561	07-DEC-02	PU_MAN	11000	(null)	100	30
11	145	John	Russell	JRUSSEL	011.44.1344.429268	01-OCT-04	SA_MAN	14000	0.4	100	80
12	146	Karen	Partners	KPARTNER	011.44.1344.467268	05-JAN-05	SA_MAN	13500	0.3	100	80
13	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	10-MAR-05	SA_MAN	12000	0.3	100	80
14	148	Gerald	Cambraut	GCAMBRAU	011.44.1344.619268	15-OCT-07	SA_MAN	11000	0.3	100	80
15	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	29-JAN-08	SA_MAN	10500	0.2	100	80
16	162	Clara	Vishnev	CVISHNEV	011.44.1346.129268	11-NOV-05	SA_REP	10500	0.25	147	80

Q8:

```
SELECT *  
FROM employees_replica  
WHERE hire_date < '01-JAN-2002';
```

Oracle SQL Developer : hr

File Edit View Navigate Run Source Team Tools Window Help

Connections

- Tables (Filtered)
 - COUNTRIES
 - CUSTOMERS
 - CUSTOMERSS
 - DEPARTMENTS
 - EMPLOYEES
 - EMPL_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - EMPLOYEES_REPLICA
 - EMPLOYEE_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - PHONE_NUMBER
 - HIRE_DATE
 - JOB_ID
 - SALARY
 - COMMISSION_PCT
 - MANAGER_ID

Worksheet Query Builder

```
SELECT *  
FROM employees_replica  
WHERE hire_date < '01-JAN-2002';
```

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Query Result x

SQL | All Rows Fetched: 1 in 0.004 seconds

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	102	Lex	De Haan	LDHHAAN 515.123.4569	13-JAN-01	AD_VP	17000	(null)	100	90

Q9:

```
SELECT *  
FROM employees_replica  
WHERE manager_id IS NULL;
```

Oracle SQL Developer : hr

File Edit View Navigate Run Source Team Tools Window Help

Connections

Tables (Filtered)

- COUNTRIES
- CUSTOMERS
- CUSTOMERS
- DEPARTMENTS
- EMPLOYEES
 - EMPL_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
- EMPLOYEES_REPLICA
 - EMPLOYEE_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - PHONE_NUMBER
 - HIRE_DATE
 - JOB_ID
 - SALARY
 - COMMISSION_PCT
 - MANAGER_ID

Worksheet

Query Builder

```
SELECT *  
FROM employees_replica  
WHERE manager_id IS NULL;
```

Query Result

SQL | All Rows Fetched: 1 in 0.004 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

Q10:

```
SELECT *  
FROM employees_replica  
WHERE email LIKE 'A%';
```

Oracle SQL Developer : hr

File Edit View Navigate Run Source Team Tools Window Help

Connections

- Tables (Filtered)
 - COUNTRIES
 - CUSTOMERS
 - CUSTOMERSS
 - DEPARTMENTS
 - EMPLOYEES
 - EMPL_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - EMPLOYEES_REPLICA
 - EMPLOYEE_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - PHONE_NUMBER
 - HIRE_DATE
 - JOB_ID
 - SALARY
 - COMMISSION_PCT
 - MANAGER_ID

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Worksheet Query Builder

```
SELECT *  
FROM employees_replica  
WHERE email LIKE 'A%';
```

Query Result x

SQL | All Rows Fetched: 10 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	103	Alexander	Hunold	AHUNOLD	590.423.4567	03-JAN-06	IT_PROG	9000	(null)	102	60
2	115	Alexander	Khoo	AKHOO	515.127.4562	18-MAY-03	PU_CLERK	3100	(null)	114	30
3	121	Adam	Fripp	AFRIPP	650.123.2234	10-APR-05	ST_MAN	8200	(null)	100	50
4	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	10-MAR-05	SA_MAN	12000	0.3	100	80
5	158	Allan	McEwen	AMCEWEN	011.44.1345.829268	01-AUG-04	SA_REP	9000	0.35	146	80
6	167	Amit	Banda	ABANDA	011.44.1346.729268	21-APR-08	SA_REP	6200	0.1	147	80
7	175	Alyssa	Hutton	AHUTTON	011.44.1644.429266	19-MAR-05	SA_REP	8800	0.25	149	80
8	185	Alexis	Bull	ABULL	650.509.2876	20-FEB-05	SH_CLERK	4100	(null)	121	50
9	187	Anthony	Cabrio	ACABRIO	650.509.4876	07-FEB-07	SH_CLERK	3000	(null)	121	50
10	196	Alana	Walsh	AWALSH	650.507.9811	24-APR-06	SH_CLERK	3100	(null)	124	50

Q11:

```
SELECT employee_id, salary, commission_pct,  
       ABS(salary - (salary * commission_pct)) AS abs_difference  
FROM employees_replica  
WHERE commission_pct IS NOT NULL;
```

Oracle SQL Developer : hr

File Edit View Navigate Run Source Team Tools Window Help

Connections

Tables (Filtered)

- COUNTRIES
- CUSTOMERS
- CUSTOMERSS
- DEPARTMENTS
- EMPLOYEES
 - EMPL_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
- EMPLOYEES_REPLICA
 - EMPLOYEE_ID
 - FIRST_NAME
 - LAST_NAME
 - EMAIL
 - PHONE_NUMBER
 - HIRE_DATE
 - JOB_ID
 - SALARY
 - COMMISSION_PCT
 - MANAGER_ID

Reports

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Welcome Page homeuser hr EMPLOYEES_REPLICA

Worksheet Query Builder

```
SELECT employee_id, salary, commission_pct,  
       ABS(salary - (salary * commission_pct)) AS abs_difference  
FROM employees_replica  
WHERE commission_pct IS NOT NULL;
```

Query Result x

SQL | All Rows Fetched: 35 in 0.006 seconds

EMPLOYEE_ID	SALARY	COMMISSION_PCT	ABS_DIFFERENCE
1	145	14000	0.4
2	146	13500	0.3
3	147	12000	0.3
4	148	11000	0.3
5	149	10500	0.2
6	150	10000	0.3
7	151	9500	0.25
8	152	9000	0.25
9	153	8000	0.2
10	154	7500	0.2
11	155	7000	0.15
12	156	10000	0.35
13	157	9500	0.35
14	158	9000	0.35
15	159	8000	0.3
16	160	7500	0.3

Q12:

```
SELECT 'Department: ' || department_name || ' Location: ' || location_id AS  
department_location  
FROM departments;
```

Oracle SQL Developer : hr

The screenshot displays the Oracle SQL Developer interface with the 'hr' schema selected. The 'Connections' pane on the left shows the database structure, including tables like COUNTRIES, CUSTOMERS, DEPARTMENTS, EMPLOYEES, and EMPLOYEES_REPLICA. The 'Query Builder' pane shows the following SQL query:

```
SELECT 'Department: ' || department_name || ' Location: ' || location_id AS department_location  
FROM departments;
```

The 'Query Result' pane shows the execution results, indicating that all rows were fetched in 0.004 seconds. The results are displayed in a table with the following data:

DEPARTMENT_LOCATION
1 Department: Administration Location: 1700
2 Department: Marketing Location: 1800
3 Department: Purchasing Location: 1700
4 Department: Human Resources Location: 2400
5 Department: Shipping Location: 1500
6 Department: IT Location: 1400
7 Department: Public Relations Location: 2700
8 Department: Sales Location: 2500
9 Department: Executive Location: 1700
10 Department: Finance Location: 1700
11 Department: Accounting Location: 1700
12 Department: Treasury Location: 1700
13 Department: Corporate Tax Location: 1700
14 Department: Control And Credit Location: 1700
15 Department: Shareholder Services Location: 1700
16 Department: Benefits Location: 1700