

## **Lab 7 – CSE 572 – Jarrar, Yousef - 005845836**

### **Lab07\_1**

```
SELECT last_name, department_id, department_name
FROM hr.employees
JOIN hr.departments
USING (department_id);
```

### **Lab07\_2**

```
SELECT DISTINCT job_id, location_id
FROM hr.employees, hr.departments
WHERE hr.employees.department_id = hr.departments.department_id
AND hr.employees.department_id = 80;
```

### **Lab07\_3**

```
SELECT e.last_name, d.department_name, d.location_id, l.city
FROM hr.employees e, hr.departments d, hr.locations l
WHERE e.department_id = d.department_id
AND
d.location_id = l.location_id
AND e.commission_pct IS NOT NULL;
```

### **Lab07\_4**

```
SELECT LAST_NAME, DEPARTMENT_NAME
FROM HR.EMPLOYEES, HR.DEPARTMENTS
WHERE HR.EMPLOYEES.DEPARTMENT_ID = HR.DEPARTMENTS.DEPARTMENT_ID
AND LAST_NAME LIKE '%a%';
```

### **Lab07\_5**

```
SELECT e.last_name, e.job_id, e.department_id, d.department_name
FROM hr.employees e JOIN hr.departments d
ON(e.department_id = d.department_id)
JOIN hr.locations l
ON(d.location_id = l.location_id)
WHERE LOWER(l.city) = 'toronto';
```

### **Lab07\_6**

```
SELECT w.last_name "Employee", w.employee_id "EMP#",
m.last_name "Manager", m.employee_id "Mgr#"
FROM hr.employees w JOIN hr.employees m
ON(w.manager_id = m.employee_id);
```

### Lab07\_7

```
SELECT w.last_name "Employee", w.employee_id "EMP#",  
m.last_name "Manager", m.employee_id "Mgr#"  
FROM hr.employees w  
LEFT OUTER JOIN hr.employees m  
ON(w.manager_id = m.employee_id);
```

### Lab07\_8

```
DESC JOB_GRADES  
SELECT e.last_name, e.job_id, d.department_name,  
e.salary, j.grade_level  
FROM hr.employees e JOIN hr.departments d  
ON(e.department_id = d.department_id)  
JOIN hr.job_grades j  
ON(e.salary BETWEEN j.lowest_sal AND j.highest_sal);
```

### Lab07\_9

```
SELECT e.last_name, e.hire_date  
FROM hr.employees e JOIN hr.employees davies  
ON(davies.last_name = 'Davies')  
WHERE davies.hire_date < e.hire_date;
```

### Lab07\_10

```
SELECT w.last_name "Employee", w.hire_date "Emp Hired", m.last_name  
"Manager", m.hire_date "MGR Hired"  
FROM hr.employees w, hr.employees m  
WHERE w.manager_id = m.employee_id  
AND w.hire_date < m.hire_date;
```

### Lab07\_11

```
/* LAB07_11  
Jarrar, Yousef  
*/
```

```
CREATE OR REPLACE VIEW employees_vu AS  
SELECT employee_id, last_name employee, department_id  
FROM hr.employees;
```

### Lab07\_12.lst

```
SQL> REM LAB07_12  
SQL> REM JARRAR, YOUSEF  
SQL> RUN LAB07_11  
1 CREATE OR REPLACE VIEW employees_vu AS  
2 SELECT employee_id, last_name employee, department_id  
3* FROM hr.employees
```

View created.

SQL> SELECT \* FROM employees\_vu;  
PRESS RETURN TO CONTINUE

EMPLOYEE_ID	EMPLOYEE	DEPARTMENT_ID
-------------	----------	---------------

198	OConnell	50
199	Grant	50
200	Whalen	10
201	Hartstein	20
202	Fay	20
203	Mavris	40
204	Baer	70
205	Higgins	110
206	Gietz	110
100	King	90
101	Kochhar	90
102	De Haan	90
103	Hunold	60
104	Ernst	60
105	Austin	60
106	Pataballa	60
107	Lorentz	60
108	Greenberg	100
109	Faviet	100
110	Chen	100
111	Sciarra	100
112	Urman	100
113	Popp	100
114	Raphaely	30
115	Khoo	30
116	Baida	30
117	Tobias	30

PRESS RETURN TO CONTINUE

EMPLOYEE_ID	EMPLOYEE	DEPARTMENT_ID
-------------	----------	---------------

118	Himuro	30
119	Colmenares	30
120	Weiss	50
121	Fripp	50
122	Kaufling	50
123	Vollman	50
124	Mourgos	50
125	Nayer	50
126	Mikkilineni	50
127	Landry	50
128	Markle	50
129	Bissot	50

130 Atkinson	50
131 Marlow	50
132 Olson	50
133 Mallin	50
134 Rogers	50
135 Gee	50
136 Philtanker	50
137 Ladwig	50
138 Stiles	50
139 Seo	50
140 Patel	50
141 Rajs	50
142 Davies	50
143 Matos	50
144 Vargas	50

PRESS RETURN TO CONTINUE

EMPLOYEE_ID	EMPLOYEE	DEPARTMENT_ID
-------------	----------	---------------

145 Russell	80
146 Partners	80
147 Errazuriz	80
148 Cambrault	80
149 Zlotkey	80
150 Tucker	80
151 Bernstein	80
152 Hall	80
153 Olsen	80
154 Cambrault	80
155 Tuvault	80
156 King	80
157 Sully	80
158 McEwen	80
159 Smith	80
160 Doran	80
161 Sewall	80
162 Vishney	80
163 Greene	80
164 Marvins	80
165 Lee	80
166 Ande	80
167 Banda	80
168 Ozer	80
169 Bloom	80
170 Fox	80
171 Smith	80

PRESS RETURN TO CONTINUE

EMPLOYEE_ID	EMPLOYEE	DEPARTMENT_ID
-------------	----------	---------------

172 Bates	80
-----------	----

173 Kumar	80
174 Abel	80
175 Hutton	80
176 Taylor	80
177 Livingston	80
178 Grant	
179 Johnson	80
180 Taylor	50
181 Fleaur	50
182 Sullivan	50
183 Geoni	50
184 Sarchand	50
185 Bull	50
186 Dellinger	50
187 Cabrio	50
188 Chung	50
189 Dilly	50
190 Gates	50
191 Perkins	50
192 Bell	50
193 Everett	50
194 McCain	50
195 Jones	50
196 Walsh	50
197 Feeney	50

107 rows selected.

SQL> SELECT view\_name, text

2 FROM user\_views;

PRESS RETURN TO CONTINUE

VIEW_NAME	TEXT
-----------	------

---

EMPLOYEES_VU	SELECT employee_id, last_name employee, department_id FROM hr.employees
--------------	--

SQL> SELECT employee, department\_id

2 FROM employees\_vu;

PRESS RETURN TO CONTINUE

EMPLOYEE	DEPARTMENT_ID
----------	---------------

---

OConnell	50
Grant	50
Whalen	10
Hartstein	20
Fay	20
Mavris	40
Baer	70

Higgins	110
Gietz	110
King	90
Kochhar	90
De Haan	90
Hunold	60
Ernst	60
Austin	60
Pataballa	60
Lorentz	60
Greenberg	100
Faviet	100
Chen	100
Sciarra	100
Urman	100
Popp	100
Raphaely	30
Khoo	30
Baida	30
Tobias	30

PRESS RETURN TO CONTINUE

EMPLOYEE	DEPARTMENT_ID
----------	---------------

-----	
Himuro	30
Colmenares	30
Weiss	50
Fripp	50
Kaufling	50
Vollman	50
Mourgos	50
Nayer	50
Mikkilineni	50
Landry	50
Markle	50
Bissot	50
Atkinson	50
Marlow	50
Olson	50
Mallin	50
Rogers	50
Gee	50
Philtanker	50
Ladwig	50
Stiles	50
Seo	50
Patel	50
Rajs	50
Davies	50
Matos	50

Vargas 50  
PRESS RETURN TO CONTINUE  
EMPLOYEE DEPARTMENT\_ID

-----  
Russell 80  
Partners 80  
Errazuriz 80  
Cambrault 80  
Zlotkey 80  
Tucker 80  
Bernstein 80  
Hall 80  
Olsen 80  
Cambrault 80  
Tuvault 80  
King 80  
Sully 80  
McEwen 80  
Smith 80  
Doran 80  
Sewall 80  
Vishney 80  
Greene 80  
Marvins 80  
Lee 80  
Ande 80  
Banda 80  
Ozer 80  
Bloom 80  
Fox 80  
Smith 80

PRESS RETURN TO CONTINUE  
EMPLOYEE DEPARTMENT\_ID

-----  
Bates 80  
Kumar 80  
Abel 80  
Hutton 80  
Taylor 80  
Livingston 80  
Grant  
Johnson 80  
Taylor 50  
Fleaur 50  
Sullivan 50  
Geoni 50  
Sarchand 50  
Bull 50  
Dellinger 50

Cabrio	50
Chung	50
Dilly	50
Gates	50
Perkins	50
Bell	50
Everett	50
McCain	50
Jones	50
Walsh	50
Feeney	50

107 rows selected.

SQL> Spool off

### Lab07\_13

```
/* LAB07_13
Jarrar, Yousef
*/
```

```
CREATE VIEW dept50 AS
SELECT employee_id empno, last_name employee,
department_id deptno
FROM hr.employees
WHERE department_id = 50
WITH CHECK OPTION CONSTRAINT emp_dept_50;
```

### Lab07\_14.lst

```
SQL> REM LAB07_12
SQL> REM JARRAR, YOUSEF
SQL> run LAB07_13
 1 CREATE VIEW dept50 AS
 2 SELECT employee_id empno, last_name employee,
 3 department_id deptno
 4 FROM hr.employees
 5 WHERE department_id = 50
 6* WITH CHECK OPTION CONSTRAINT emp_dept_50
CREATE VIEW dept50 AS
      *
```

ERROR at line 1:  
ORA-00955: name is already used by an existing object

SQL> DESCRIBE dept50

Name	Null?	Type
-----		
-----		



EMPNO

EMPLOYEE

DEPTNO

NOT NULL NUMBER(6)

NOT NULL VARCHAR2(25)

NUMBER(4)

SQL> SELECT \* FROM dept50;

PRESS RETURN TO CONTINUE

EMPNO EMPLOYEE

DEPTNO

198	OConnell	50
199	Grant	50
120	Weiss	50
121	Fripp	50
122	Kaufling	50
123	Vollman	50
124	Mourgos	50
125	Nayer	50
126	Mikkilineni	50
127	Landry	50
128	Markle	50
129	Bissot	50
130	Atkinson	50
131	Marlow	50
132	Olson	50
133	Mallin	50
134	Rogers	50
135	Gee	50
136	Philtanker	50
137	Ladwig	50
138	Stiles	50
139	Seo	50
140	Patel	50
141	Rajs	50
142	Davies	50
143	Matos	50
144	Vargas	50

PRESS RETURN TO CONTINUE

EMPNO EMPLOYEE

DEPTNO

180	Taylor	50
181	Fleaur	50
182	Sullivan	50
183	Geoni	50
184	Sarchand	50
185	Bull	50
186	Dellinger	50
187	Cabrio	50
188	Chung	50
189	Dilly	50
190	Gates	50

191 Perkins	50
192 Bell	50
193 Everett	50
194 McCain	50
195 Jones	50
196 Walsh	50
197 Feeney	50

45 rows selected.

SQL>

SQL> SELECT view\_name, text FROM user\_views;

PRESS RETURN TO CONTINUE

VIEW_NAME	TEXT
-----------	------

---

DEPT50	SELECT employee_id empno, last_name employee, department_id deptno FROM hr.emplo
--------	--

EMPLOYEES_VU	SELECT employee_id, last_name employee, department_id FROM hr.employees
--------------	--

SQL>

SQL> UPDATE dept50

2 SET deptno = 80

3 WHERE Employee = 'Matos';

UPDATE dept50

\*

ERROR at line 1:

ORA-01031: insufficient privileges

SQL> spool off