



Universidad Politécnica de Aguascalientes

Ingeniería en Sistemas Computacionales

Prácticas Oracle

Administración de Base de Datos

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Aguascalientes, Aguascalientes

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DP_20.1

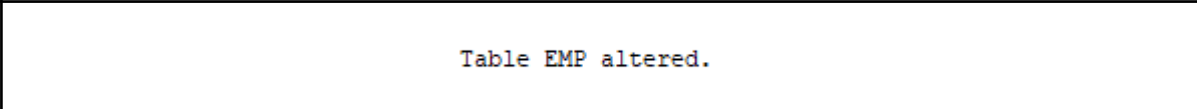
Exercise 1

Problem No: 1	No. Rows in Result:																																																																																																																																																																																													
Cree las tablas adicionales que se utilizan en esta sección ejecutando las siguientes sentencias.	28																																																																																																																																																																																													
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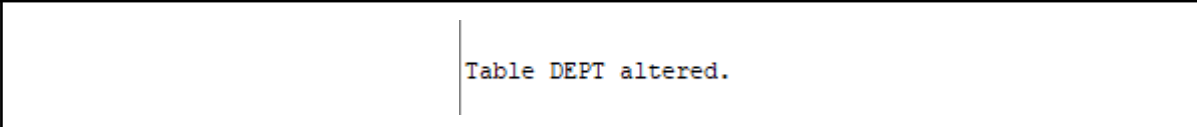
Exercise 2

Problem No: 2	No. Rows in Result:																																																																								
Cree un informe que muestre el nombre de restricción, el tipo, el nombre de la columna y la posición de la columna de todas las restricciones de la tabla JOB_HISTORY, además de las restricciones no nulas.	11																																																																								
Text Code (No image) :																																																																									
<pre>CREATE table info2 as(select c.constraint_name, c.constraint_type, a.column_name, a.position, to_lob(c.search_condition) as search_condition from user_constraints c inner join user_cons_columns a on c.constraint_name= a.constraint_name where c.table_name = 'JOB_HISTORY');</pre>																																																																									
Image Result:																																																																									
<table><tr><th></th><th>CONSTRAINT_NAME</th><th>CONSTRAINT_TYPE</th><th>COLUMN_NAME</th><th>POSITION</th><th>SEARCH_CONDITION</th></tr><tr><td>1</td><td>JHIST_EMPLOYEE_NN</td><td>C</td><td>EMPLOYEE_ID</td><td>(null)</td><td>"EMPLOYEE_ID" IS NOT NULL</td></tr><tr><td>2</td><td>JHIST_START_DATE_NN</td><td>C</td><td>START_DATE</td><td>(null)</td><td>"START_DATE" IS NOT NULL</td></tr><tr><td>3</td><td>JHIST_END_DATE_NN</td><td>C</td><td>END_DATE</td><td>(null)</td><td>"END_DATE" IS NOT NULL</td></tr><tr><td>4</td><td>JHIST_JOB_NN</td><td>C</td><td>JOB_ID</td><td>(null)</td><td>"JOB_ID" IS NOT NULL</td></tr><tr><td>5</td><td>JHIST_DATE_INTERVAL</td><td>C</td><td>START_DATE</td><td>(null)</td><td>end_date > start_date</td></tr><tr><td>6</td><td>JHIST_DATE_INTERVAL</td><td>C</td><td>END_DATE</td><td>(null)</td><td>end_date > start_date</td></tr><tr><td>7</td><td>JHIST_EMP_ID_ST_DATE_PK</td><td>P</td><td>EMPLOYEE_ID</td><td>1 (null)</td><td></td></tr><tr><td>8</td><td>JHIST_EMP_ID_ST_DATE_PK</td><td>P</td><td>START_DATE</td><td>2 (null)</td><td></td></tr><tr><td>9</td><td>JHIST_DEPT_FK</td><td>R</td><td>DEPARTMENT_ID</td><td>1 (null)</td><td></td></tr><tr><td>10</td><td>JHIST_EMP_FK</td><td>R</td><td>EMPLOYEE_ID</td><td>1 (null)</td><td></td></tr><tr><td>11</td><td>JHIST_JOB_FK</td><td>R</td><td>JOB_ID</td><td>1 (null)</td><td></td></tr></table>			CONSTRAINT_NAME	CONSTRAINT_TYPE	COLUMN_NAME	POSITION	SEARCH_CONDITION	1	JHIST_EMPLOYEE_NN	C	EMPLOYEE_ID	(null)	"EMPLOYEE_ID" IS NOT NULL	2	JHIST_START_DATE_NN	C	START_DATE	(null)	"START_DATE" IS NOT NULL	3	JHIST_END_DATE_NN	C	END_DATE	(null)	"END_DATE" IS NOT NULL	4	JHIST_JOB_NN	C	JOB_ID	(null)	"JOB_ID" IS NOT NULL	5	JHIST_DATE_INTERVAL	C	START_DATE	(null)	end_date > start_date	6	JHIST_DATE_INTERVAL	C	END_DATE	(null)	end_date > start_date	7	JHIST_EMP_ID_ST_DATE_PK	P	EMPLOYEE_ID	1 (null)		8	JHIST_EMP_ID_ST_DATE_PK	P	START_DATE	2 (null)		9	JHIST_DEPT_FK	R	DEPARTMENT_ID	1 (null)		10	JHIST_EMP_FK	R	EMPLOYEE_ID	1 (null)		11	JHIST_JOB_FK	R	JOB_ID	1 (null)	
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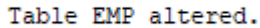
Exercise 3

Problem No: 3	No. Rows in Result:
Cree una restricción de clave primaria en la columna employee_id de la tabla emp	1
Text Code (No image) :	
<pre>alter table emp modify employee_id CONSTRAINT Alter_Table_EmployeeID_PP Primary key;</pre>	
Image Result:	
	

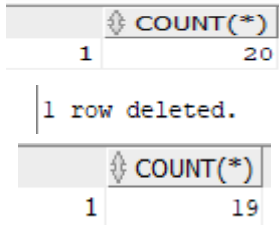
Exercise 4

Problem No: 4	No. Rows in Result:
Cree una clave primaria en la columna department_id de la tabla dept.	1
Text Code (No image) :	
<pre>alter table dept modify department_id Primary key;</pre>	
Image Result:	
	

Exercise 5

Problem No: 5	No. Rows in Result:
Agregue una restricción ajena entre DEPT y EMP, de modo que solo se puedan introducir departamentos válidos en la tabla EMP. Asegúrese de que puede suprimir cualquier fila de la tabla DEPT y de que se suprimen las filas a las que se hace referencia en la tabla EMP.	1
Text Code (No image) :	
<pre>alter table emp add constraint Alter_Table_Emp_Dept_Department_Id_FK Foreign key (department_id) references dept (department_id) on delete cascade;</pre>	
Image Result:	
	

Exercise 6

Problem No: 6	No. Rows in Result:
Pruebe la restricción de clave ajena que acaba de crear: Cuente el número de filas en la tabla EMP. Elimine el departamento 10 de la tabla dept. Ahora vuelva a contar los empleados. Debería haber menos empleados.	1
Text Code (No image) :	
<pre>select count(*) from emp; delete from dept where department_id=10; select count(*) from emp; --volver a contar--</pre>	
Image Result:	
	

Exercise 7

Problem No: 7	No. Rows in Result:																																								
Genere un informe que devuelva el apellido, el salario, el número de departamento y el salario medio de todos los departamentos en los que el salario es mayor que el salario medio.	7																																								
Text Code (No image) :																																									
<pre>SELECT e.last_name, e.salary, e.department_id, sa.salavg FROM emp e, (SELECT department_id, ROUND(AVG(salary),0) salavg FROM emp GROUP BY department_id) sa WHERE (e.salary > sa.salavg) and (e.department_id = sa.department_id) ORDER BY e.department_id;</pre>																																									
Image Result:																																									
<table><tr><th></th><th>LAST_NAME</th><th>SALARY</th><th>DEPARTMENT_ID</th><th>SALAVG</th></tr><tr><td>1</td><td>Hartstein</td><td>13000</td><td>20</td><td>9500</td></tr><tr><td>2</td><td>Mourgos</td><td>5800</td><td>50</td><td>3500</td></tr><tr><td>3</td><td>Hunold</td><td>9000</td><td>60</td><td>6400</td></tr><tr><td>4</td><td>Zlotkey</td><td>10500</td><td>80</td><td>10033</td></tr><tr><td>5</td><td>Abel</td><td>11000</td><td>80</td><td>10033</td></tr><tr><td>6</td><td>King</td><td>24000</td><td>90</td><td>19333</td></tr><tr><td>7</td><td>Higgins</td><td>12000</td><td>110</td><td>10150</td></tr></table>			LAST_NAME	SALARY	DEPARTMENT_ID	SALAVG	1	Hartstein	13000	20	9500	2	Mourgos	5800	50	3500	3	Hunold	9000	60	6400	4	Zlotkey	10500	80	10033	5	Abel	11000	80	10033	6	King	24000	90	19333	7	Higgins	12000	110	10150
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6	King	24000	90	19333																																					
7	Higgins	12000	110	10150																																					

Exercise 8

Problem No: 8	No. Rows in Result:																																
Cree una vista denominada V2 que devuelva el salario más alto, el salario más bajo, el salario medio y el nombre del departamento	7																																
Text Code (No image) :																																	
<pre>CREATE VIEW V2 as SELECT distinct d.department_name, sl.Lowest_Salary, sh.Highest_Salary, sa.Averege_Salary FROM dept d, (SELECT department_id, MIN(salary) Lowest_Salary FROM emp GROUP BY department_id) sl, (SELECT department_id, MAX(salary) Highest_Salary FROM emp GROUP BY department_id) sh, (SELECT department_id, ROUND(AVG(salary),0) Averege_Salary FROM emp GROUP BY department_id) sa, emp e WHERE (e.department_id = sl.department_id) and (e.department_id = sh.department_id) and (e.department_id = sa.department_id) and (d.department_id = e.department_id) ORDER BY d.department_name; SELECT * FROM V2;</pre>																																	
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5 Marketing	6000	13000	9500																														
6 Sales	8600	11000	10033																														
7 Shipping	2500	5800	3500																														

Exercise 9

Problem No: 9	No. Rows in Result:																					
Cree una vista denominada Dept_Managers_View que devuelva una lista de nombres de departamento junto con las iniciales y el apellido del jefe para dicho departamento.Pruebe la vista devolviendo todas sus filas. Asegures que no se pueda actualizar ninguna gila a través de la vista. Pruebe a ejecutar una sentencia UPDATE en la vista.	6																					
Text Code (No image) :																						
<pre>create VIEW Dept_Managers_View as (select d.department_name,SUBSTR(a.first_name,1,1) ' ' a.last_name as name from DEPARTMENTS d, (select employee_id, first_name ,last_name from employees where employee_id in (select DISTINCT(manager_id) from employees) order by employee_id) a where d.manager_id = a.employee_id) with read only;</pre>																						
Image Result:																						
<table><tr><th></th><th>DEPARTMENT_NAME</th><th>NAME</th></tr><tr><td>1</td><td>Executive</td><td>S King</td></tr><tr><td>2</td><td>IT</td><td>A Hunold</td></tr><tr><td>3</td><td>Shipping</td><td>K Mourgos</td></tr><tr><td>4</td><td>Sales</td><td>E Zlotkey</td></tr><tr><td>5</td><td>Marketing</td><td>M Hartstein</td></tr><tr><td>6</td><td>Accounting</td><td>S Higgins</td></tr></table>			DEPARTMENT_NAME	NAME	1	Executive	S King	2	IT	A Hunold	3	Shipping	K Mourgos	4	Sales	E Zlotkey	5	Marketing	M Hartstein	6	Accounting	S Higgins
	DEPARTMENT_NAME	NAME																				
1	Executive	S King																				
2	IT	A Hunold																				
3	Shipping	K Mourgos																				
4	Sales	E Zlotkey																				
5	Marketing	M Hartstein																				
6	Accounting	S Higgins																				


Exercise 10

Problem No: 10	No. Rows in Result:
Cree una secuencia denominada ct_seq con todos los valores por defecto.	1
Text Code (No image) :	
CREATE SEQUENCE ct_seq;	
Image Result:	
Sequence CT_SEQ created.	

Exercise 11

Problem No: 11	No. Rows in Result:											
Examine la siguiente sentencia de inserción y corrija los errores. INSERT INTO emp (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id) VALUES (ct_seq.nextvalue,"Kaare",'Hansen','KHANSEN','44965 832123', sysdate, 'SA_REP', \$6500, null, 100, 20);	1											
Text Code (No image) :												
INSERT INTO emp (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id) VALUES (ct_seq.NEXTVAL, 'Kaare', 'Hansen', 'KHANSEN', '449.658.32123',sysdate, 'SA_REP', 6500, null, 100, 20);												
Image Result:												
<table><tr><td>20</td><td>1 Kaare</td><td>Hansen</td><td>KHANSEN</td><td>449.658.32123</td><td>14-NOV-22</td><td>SA_REP</td><td>6500</td><td>(null)</td><td>100</td><td>20 (null)</td></tr></table>		20	1 Kaare	Hansen	KHANSEN	449.658.32123	14-NOV-22	SA_REP	6500	(null)	100	20 (null)
20	1 Kaare	Hansen	KHANSEN	449.658.32123	14-NOV-22	SA_REP	6500	(null)	100	20 (null)		

Exercise 12

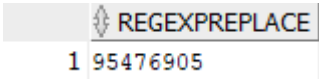
Problem No: 12	No. Rows in Result:
Escriba la sentencia SQL para mostrar todas las tablas de usuario que contienen el nombre de PRIV.	1
Text Code (No image) :	
SELECT table_name from user_tab_privs;	
Image Result:	
	

Exercise 13

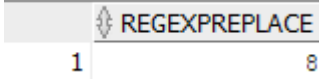
Problem No: 13	No. Rows in Result:
Conceda acceso de selección a público en la tabla EMP y verifique que se ha otorgado mediante la ejecución de esta consulta.	
Text Code (No image) :	
SELECT * FROM user_tab_privs WHERE table_name = 'EMP';	
Image Result:	

Exercise 14

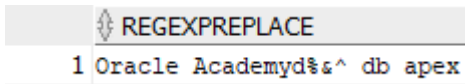
Problem No: 14	No. Rows in Result:
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<p>Conceda acceso de selección a público en la tabla EMP y verifique que se ha otorgado mediante la ejecución esta consulta. SELECT * FROM user_tab_privs WHERE table_name = 'EMP';</p> <p>Sustituya ?? en la siguiente consulta mediante expresiones regulares para devolver solo los números de la siguiente cadena: 'Oracle Academy9547d6905%&^ db apex'.</p> <p>SELECT REGEXP_REPLACE('Oracle Academy9547d6905%&^ db apex', '??', '') regexpreplace from DUAL;</p>	1
Text Code (No image) :	
SELECT REGEXP_REPLACE('Oracle Academy9547d6905%&^ db apex', '[^[:digit:]]', '') regexpreplace from DUAL;	
Image Result:	
	

Exercise 15

Problem No: 15	No. Rows in Result:
<p>Corrija la consulta anterior mediante expresiones regulares para devolver el número de dígitos de la siguiente cadena: 'Oracle Academy9547d6905 %y;^ db'</p> <p>SELECT LENGTH(REGEXP_REPLACE('Oracle Academy9547d6905%&^ db apex', '??', '')) regexpreplace FROM DUAL;</p>	1
Text Code (No image) :	
SELECT LENGTH(REGEXP_REPLACE('Oracle Academy9547d6905 %y;^ db', '[^[:digit:]]', '')) regexpreplace FROM DUAL;	
Image Result:	
	

Exercise 16

Problem No: 16	No. Rows in Result:
Corrija la consulta de nuevo para devolver solo los caracteres no numéricos.	1
Text Code (No image) :	
<pre>SELECT REGEXP_REPLACE('Oracle Academy9547d6905%&^ db apex','[0-9]','') regexpreplace from DUAL;</pre>	
Image Result:	
 A screenshot of a SQL query execution result in a database tool. It shows a single row with the value '1 Oracle Academyd%&^ db apex'. The function 'REGEXP_REPLACE' is visible in the header of the result grid.	


Exercise 17

Problem No: 17	No. Rows in Result:
Mediante las uniones propiedad de Oracle, construya una instrucción que devuelva todos los employee_ids unidos a todos los department_names.	16
Text Code (No image) :	
<pre>select e.employee_id, d.department_name from employees e, departments d order by employee_id;</pre>	
Image Result:	

	EMPLOYEE_ID	DEPARTMENT_NAME
1	100	Administration
2	100	Marketing
3	100	Shipping
4	100	IT
5	100	Sales
6	100	Executive
7	100	Accounting
8	100	Contracting
9	101	Contracting
10	101	Sales
11	101	Administration
12	101	Marketing
13	101	IT
14	101	Shipping
15	101	Accounting
16	101	Executive

Exercise 18

Problem No: 18	No. Rows in Result:
Vuelva a utilizar las uniones Oracle para corregir la sentencia anterior de modo que devuelva sólo el nombre del departamento en el que está trabajando el empleado actualmente.	16
Text Code (No image) :	
<pre>select e.employee_id, d.department_name from employees e, departments d where e.department_id = d.department_id order by employee_id;</pre>	
Image Result:	

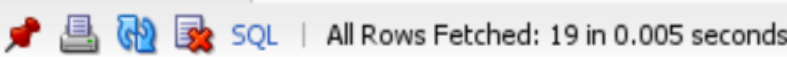
 All Rows Fetched: 19 in 0.005 seconds		
	EMPLOYEE_ID	DEPARTMENT_NAME
1	100	Executive
2	101	Executive
3	102	Executive
4	103	IT
5	104	IT
6	107	IT
7	124	Shipping
8	141	Shipping
9	142	Shipping
10	143	Shipping
11	144	Shipping
12	149	Sales
13	174	Sales
14	176	Sales
15	200	Administration
16	201	Marketing

Exercise 19

Problem No: 19	No. Rows in Result:
Vuelva a utilizar las uniones Oracle para crear una consulta que muestre el apellido de los empleados, el nombre de departamento, el salario y el nombre del país de todos los empleados.	16
Text Code (No image) :	
<pre>SELECT e.last_name , d.department_name ,e.salary, c.country_name FROM employees e, departments d, locations l, countries c WHERE e.department_id = d.department_id AND</pre>	

```
d.location_id = l.location_id(+)
AND
l.country_id = c.country_id(+)
;
```

Image Result:

				
	LAST_NAME	DEPARTMENT_NAME	SALARY	COUNTRY_NAME
1	Hartstein	Marketing	13000	Canada
2	Fay	Marketing	6000	Canada
3	Zlotkey	Sales	10500	United Kingdom
4	Abel	Sales	11000	United Kingdom
5	Taylor	Sales	8600	United Kingdom
6	Hunold	IT	9000	United States of America
7	Ernst	IT	6000	United States of America
8	Lorentz	IT	4200	United States of America
9	Mourgos	Shipping	5800	United States of America
10	Rajs	Shipping	3500	United States of America
11	Davies	Shipping	3100	United States of America
12	Matos	Shipping	2600	United States of America
13	Vargas	Shipping	2500	United States of America
14	Whalen	Administration	4400	United States of America
15	King	Executive	24000	United States of America
16	Kochhar	Executive	17000	United States of America

Exercise 20


Problem No: 20	No. Rows in Result:
Vuelva a utilizar la sintaxis de unión de Oracle para modificar la consulta anterior, de modo que incluya también incluye el registro de empleado del empleado sin department_id, 'Grant'.	20
Text Code (No image) :	
SELECT e.last_name , d.department_name ,e.salary, c.country_name FROM employees e, departments d, locations l, countries c	


```

WHERE e.department_id = d.department_id(+)
AND
d.location_id = l.location_id(+)
AND
l.country_id = c.country_id(+)
;

```

Image Result:

 All Rows Fetched: 20 in 0.006 seconds				
	LAST_NAME	DEPARTMENT_NAME	SALARY	COUNTRY_NAME
5	Taylor	Sales	8600	United Kingdom
6	Hunold	IT	9000	United States of America
7	Ernst	IT	6000	United States of America
8	Lorentz	IT	4200	United States of America
9	Mourgos	Shipping	5800	United States of America
10	Rajs	Shipping	3500	United States of America
11	Davies	Shipping	3100	United States of America
12	Matos	Shipping	2600	United States of America
13	Vargas	Shipping	2500	United States of America
14	Whalen	Administration	4400	United States of America
15	King	Executive	24000	United States of America
16	Kochhar	Executive	17000	United States of America
17	De Haan	Executive	17000	United States of America
18	Higgins	Accounting	12000	United States of America
19	Gietz	Accounting	8300	United States of America
20	Grant	(null)	7000	(null)