



Universidad Politécnica de Aguascalientes

Ingeniería en Sistemas Computacionales

Prácticas Oracle

BD 2

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Practice 10.1

Vocabulary

Identify the vocabulary word for each definition below.

OUTER	It accepts a value from the inner query to complete its SELECT statement.
SUBQUERY OF MULTIPLE ROWS	An inner query that returns one or more rows to the outer query
SUBQUERY	An inner query that is nested within an outer query
MULTI-COLUMN SUBQUERY	An inner query that compares multiple columns at the same time
SUBQUERY OF A ROW	An inner query that returns only one row to the outer query
NON-PAIRS SUBQUERY	An inner query that compares the multiple columns one at a time in different subqueries
INNER	Another name for a subquery

Try It / Solve It

1. What is the purpose of using a subquery?

Find specific information.

2. What is a subquery?

It is an inner query that is nested inside an outer query.

Problem No:	No. Rows in Result:
What DJs on Demand d_play_list_items song_id's have the same event_id as song_id 45?	
Text Code (No image) :	
SELECT song_id FROM d_play_list_items WHERE event_id IN(SELECT event_id FROM d_play_list_ song_id =45);	items WHERE
Image Result:	

Problem No:

No. Rows in Result:

Which events in the DJs on Demand database cost more than event_id = 100?

Text Code (No image):

SELECT id, name

FROM d_events

WHERE cost > (SELECT cost FROM d_events WHERE id = 100);

Image Result:

Problem No:	No. Rows in Result:
Find the track number of the song that has the same CD number as "Party Music for All Occasions."	
Text Code (No image) :	·
SELECT track FROM d_track_listings WHERE cd_number = (SELECT cd_number FROM d_cds WHERE title = 'Party Music forAll Occasions')	
Image Result:	

Problem No:	No. Rows in Result:
List the DJs on Demand events whose theme code is the same as the code for "Tropical."	
Text Code (No image):	
SELECT id, name	
FROM d_events	

WHERE theme_code = (SELECT code FROM d_themes WHERE description = 'Tropical');
Image Result:

	No. Rows in Result:
What are the names of the Global Fast Foods staff members whose salaries are greater than the staff member whose ID is 12? Bob Miller and Monique Tuttle.	
Text Code (No image) :	-
SELECT first_name,last_name	
FROM f_staffs	
WHERE salary > (SELECT salary FROM f_staffs WHERE id = 12);	
Image Result:	

Problem No:	No. Rows in Result:
What are the names of the Global Fast Foods staff members whose staff types are not the same as Bob Miller's? Sue Doe and Monique Tuttle.	
Text Code (No image):	

SELECT first_name,last_name
FROM f_staffs
WHERE staff_type != (SELECT staff_type FROM f_staffs WHERE first_name = 'Bob' AND last_name ='Miller');
Image Result:

Problem No:	No. Rows in Result:
Which Oracle employees have the same department ID as the IT department?	
Alexander Hunold, Bruce Ernst y Diana Lorentz.	
Text Code (No image) :	
SELECT first_name,last_name	
FROM employees	
WHERE department_id = (SELECT department_id FROM departments WHERE department_name = 'IT');	
Image Result:	

Problem No:	No. Rows in Result:
What are the department names of the Oracle departments that have the same location ID as Seattle? Administration, Executive, Accounting and Contracting.	
Text Code (No image):	
SELECT department_name FROM departments WHERE location_id = (SELECT location_id FROM locations WHERE city = 'Seattle');	
Image Result:	
	_

- 11. Indicate whether the statement regarding subqueries is True or False.
 - a. It is good programming practice to place a subquery on the right side of the comparison operator. TRUE
 - b. A subquery can reference a table that is not included in the outer query's FROM clause.

TRUE

c. Single-row subqueries can return multiple values to the outer query.

FALSE

Practice 10.2

Problem No: 1	No. Rows in Result:	
Write a query that returns all employees who have a higher salary than Lorentz and who are in the same department as Abel.	3	
Text Code (No image) :		
<pre>SELECT * FROM employees where department_id = (SELECT department_id</pre>		
Image Result:		
Image Result:		
	· - · - ·	
\$\psi\$ EMPLOYEE_ID \$\psi\$ FIRST_NAME \$\psi\$ EMAIL \$\psi\$ PHONE_NUMBER \$\psi\$ HIRE_DATE \$\psi\$ JOB_ID \$\psi\$ SALARY \$\psi\$ COMMISSION_PC \$\psi\$ 149 Eleni \$\psi\$ Zlotkey \$\psi\$ EZLOTKEY \$\psi\$ 11.44.1344.429018 29-JAN-00 \$\psi\$ SA_MAN \$\psi\$ 10500 \$\psi\$.	<u> </u>	

Problem No: 2						N	lo. Ro	ws in R	esult:	
	Write a query that returns all employees who have the same job ID as Rajs and who were hired after Davies.									
Text C	Code (No imag	ge) :					·			
<pre>select * from employeesST_CLERK, 29-JAN-97 where job_id = 'ST_CLERK'; and hire_date > (select hire_date from employees where employee_id = 142);</pre>										
	-	_	-		te > (s	select ni	re_da	te fr	OM	
emplo	-	_	-		re > (s	elect ni	re_da ⁻	te fr	om	
Image	oyees where	e employe	e_id = 14	12);			_			⊕ BONUS
Image	oyees where Result:	e employe	e_id = 14	12); ¯	JOB_ID ⊕ SAL		PCT ⊕ MANAG		EPARTMENT_ID	⊕ BONUS 0 (null)
Image	e Result:	e employe	e_id = 14		JOB_ID ∲SAL I_CLERK 3	ARY & COMMISSION_	PCT ⊕ MANAG	ER_ID ∯ DE	EPARTMENT_ID	· ·
Image	Result:	e employe LAST_NAME EMAI Rajs TRAJS Davies CDAVI	e_id = 14	hire_date 17-0CT-95 ST 29-JAN-97 ST	JOB_ID ⊕ SAL I_CLERK 3 I_CLERK 3	ARY ⊕ COMMISSION_ 500 (nu 100 (nu	PCT \$ MANAG	ER_ID ∯ DE	EPARTMENT_ID 50 50	0 (null)

Problem No: 3	No. Rows in Result:
Which DJs on Demand events have the same theme code which event ID = 100?	2
Text Code (No image) :	

```
select * from d_events
where theme_code = (select theme_code from d_events where id =100);
Image Result:
                              \left| \mathop{\Downarrow} \mathsf{COST} \right| \mathop{\Downarrow} \mathsf{VENUE\_ID} \right| \mathop{\Downarrow} \mathsf{PACKAGE\_CODE} \left| \mathop{\Downarrow} \mathsf{THEME\_CODE} \right| \mathop{\Downarrow} \mathsf{CLIENT\_NUMBER} \right|
 1 100 Peters Graduation 14-MAY-04 Party for 200, red, white, blue motif 8000 2 105 Vigil wedding 28-APR-04 Black tie at Four Season hotel 10000
                                                                                                                  100
                                                                                                                                     112
                                                                                                                                                     200
                                                                                                                                                                      5922
  2 105 Vigil wedding
                                                                                                                  220
                                                                                                                                     200
                                                                                                                                                     200
                                                                                                                                                                      6133
```

Problem No: 4	No. Rows in Result:				
What is the type of staff of Glob salary than any type of kitchen	2				
Text Code (No image):					
FROM f_staffs Group By staff_type HAVING MIN(salary) > (SEL					
Image Result:					
	\$\frac{\psi}{\text{STAFF_TYPE}} \frac{\psi}{\text{MIN(SALARY)}} \rightarrow 60				

Problem No: 5	No. Rows in Result:
Write a query that returns a list of department IDs and median salaries where the department median salary is greater than Ernst's salary.	6
Text Code (No image):	
<pre>SELECT department_id, ROUND(AVG(salary),2) FROM employees GROUP BY department_id HAVING AVG(salary) > (SELECT salary</pre>	
Image Result:	

ROUND(AVG(SALARY),2)	DEPARTMENT_ID	
19333.33	90	1
10150	110	2
10033.33	80	3
7000	(null)	4
6400	60	5
9500	20	6

Problem No: 6	No. Rows in Result:		
Return the department ID and grouped by department ID, we the minimum salary of employ to 50.			
Text Code (No image):			
SELECT department_id, M: FROM employees WHERE department_id != ! GROUP BY department_id; Image Result:			
		IIN(SALARY)	
	1 10	4400	
	1 10 2 20	4400 6000	
	2 20	6000	
	2 20 3 60	6000 4200	

Practice 10.3

Objectives

- Correctly use the comparison operators IN, ANY, and ALL in multiple-row subqueries
- Describe what happens if a multiple-row subquery returns a null value
- Construct and execute a multiple-row subquery in the WHERE clause or HAVING clause
- Understand when multiple-row subqueries should be used, and when it is safe to use a single-row subquery
- Distinguish between pair-wise and non-pair-wise subqueries
- Create a query using the EXISTS and NOT EXISTS operators to test for returned rows from the subquery

Try It / Solve It

1. What will be returned by a query if it has a subquery that returns a null?

Nothing, it is a null value.

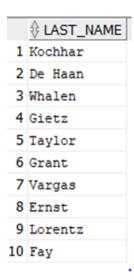
2. Write a query that returns jazz and pop songs. Write a multi-row subquery and use the d songs and d types tables. Include the id, title, duration, and the artist name.

SELECT id, title, duration, artist FROM d_songs WHERE type_code IN (SELECT code FROM d_types WHERE description IN ('Jazz', 'Pop'))

	∯ ID	∜ TITLE	\$	DURATION	
1	48	Meet Me At the Altar	6	min	Bobby West
2	45	Its Finally Over	5	min	The Hobbits
3	46	Im Going to Miss My Teacher	2	min	Jane Pop

3. Find the last names of all employees whose salaries are the same as the minimum salary for any department.

SELECT last_name FROM employees WHERE salary in (SELECT MIN(salary) FROM employees GROUP BY department_id);



4. Which Global Fast Foods employee earns the lowest salary? Hint: You can use either a single-row or a multiple-row subquery.

DOE

SELECT last name

FROM f staffs

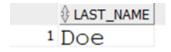
WHERE NVL(salary,0) = (SELECT MIN(NVL(salary,0)) FROM f staffs);

DOE

SELECT last_name

FROM f_staffs

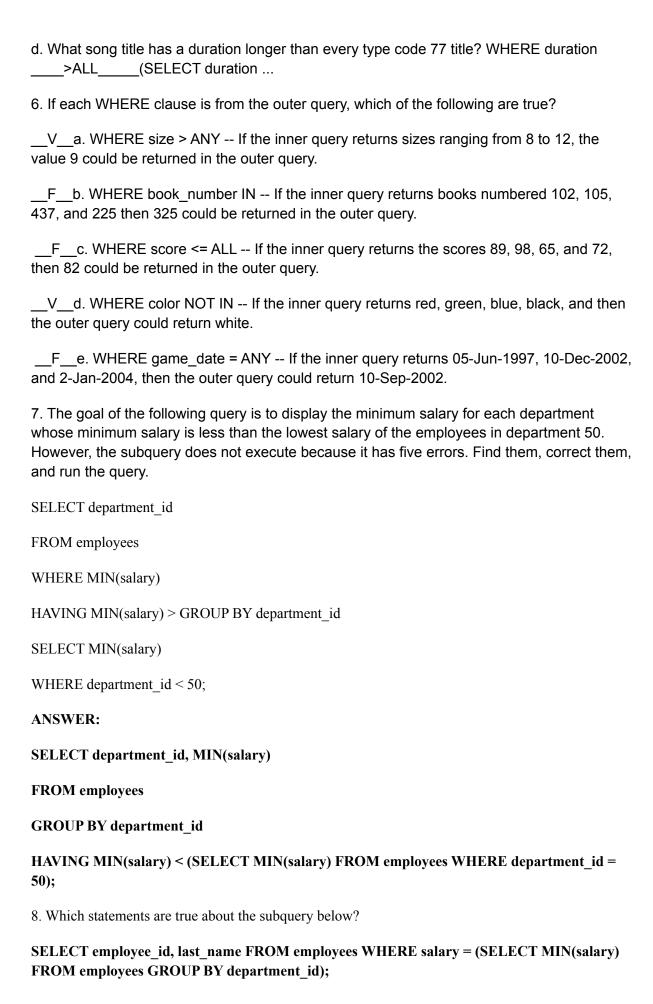
WHERE NVL(salary,0) = (SELECT MIN(NVL(salary,0)) FROM f_staffs);



5. Place the correct multiple-row comparison operators in the outer query WHERE clause of each of the following:

SELECT last_name FROM f_staffs WHERE NVL(salary,0) = (SELECT MIN(NVL(salary,0)) FROM f_staffs);

- a. Which CDs in our d_cds collection were produced before "Carpe Diem" was produced? WHERE year $___$ (SELECT year ...
- b. Which employees have salaries lower than any one of the programmers in the IT department? WHERE salary _____(SELECT salary ...
- c. What CD titles were produced in the same year as "Party Music for All Occasions" or "Carpe Diem"? WHERE year _____<ANY______(SELECT year ...



- 9. Write a pair-wise subquery listing the last_name, first_name, department_id, and manager_id for all employees that have the same department_id and manager_id as employee 141. Exclude employee 141 from the result set.

SELECT last_name, first_name, department_id, manager_id FROM employeesWHERE (NVL(department_id,-1), NVL(manager_id,-1)) = (SELECT NVL(department_id,-1), NVL(manager_id,-1) FROM employees WHERE employee_id = 141) AND employee_id != 141;

	\$ LAST_NAME			
1	Davies	Curtis	50	124
2	Matos	Randall	50	124
3	Vargas	Peter	50	124

10. Write a non-pair-wise subquery listing the last_name, first_name, department_id, and manager_id for all employees that have the same department_id and manager_id as employee 141.

SELECT last_name, first_name, department_id, manager_id FROM employees WHERE NVL(department_id, -1) = (SELECT NVL(department_id, -1) FROM employees WHERE employee_id = 141)AND NVL(manager_id, -1) = (SELECT NVL(manager_id, -1) FROM employees WHERE employee id = 141) AND employee id != 141;

1	Davies	Curtis	50	124
2	Matos	Randall	50	124
3	Vargas	Peter	50	124

Practice 10.4

- 1. Explain the main difference between correlated and non-correlated subqueries? A correlated subquery depends upon the outer query and cannot execute in isolation, but a regular or non-correlated subquery doesn't depend on the outer query and can execute in isolation.
- 2. Write a query that lists the highest earners for each department. Include the last_name, department_id, and the salary for each employee.

3. Examine the following select statement and finish it so that it will return the last_name, department_id, and salary of employees who have at least one person reporting to them. So we are effectively looking for managers only. In the partially written SELECT statement, the WHERE clause will work as it is. It is simply testing for the existence of a row in the subquery.

4. Using a WITH clause, write a SELECT statement to list the job_title of those jobs whose maximum

salary is more than half the maximum salary of the entire company. Name your subquery MAX_CALC_SAL. Name the columns in the result JOB_TITLE and JOB_TOTAL, and sort the

result on JOB_TOTAL in descending order.

Hint: Examine the jobs table. You will need to join JOBS and EMPLOYEES to display the job_title.

```
WITH max_calc_sal as (SELECT MAX(max_salary)/2 FROM jobs)
SELECT job_title
FROM jobs
WHERE jobs.max_salary > (SELECT * FROM max_calc_sal )
```

Practice 12.1

- 1. Give two examples of why it is important to be able to alter the data in a database.
 - It is important to make changes to the databases, because if the changes were not made, they would lose their usefulness.

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2. DJs on Demand just purchased four new CDs. Use an explicit INSERT statement to add each CD to the copy_d_cds table. After completing the entries, execute a SELECT * statement to verify your work.

CD_Number	Title	Producer	Year
97	Celebrate the Day	R & B Inc.	2003
98	Holiday Tunes for All Ages	Tunes are Us	2004
99	Party Music	Old Town Records	2004
100	Best of Rock and Roll	Old Town Records	2004

create table copy_d_cds as select * from d_cds

where 1=2;

insert all

into copy_d_cds (cd_number, title, producer, year) values (97, 'Celebrate the Day','R '||chr(38)||' B Inc.','2003')

into copy_d_cds (cd_number, title, producer, year) values (98,'Holiday Tunes for All Ages','Tunes are Us','2004')

into copy_d_cds (cd_number, title, producer, year) values (99,'Party Music','Old Town Records','2004')

into copy_d_cds (cd_number, title, producer, year) values (100,'Best of Rock and Roll','Old Town Records','2004')

select 1 from dual;

select * from copy d cds;

	CD_NUMBER	∜ TITLE		∜ YEAR
1	97	Celebrate the Day	R & B Inc.	2003
2	98	Holiday Tunes for All Ages	Tunes are Us	2004
3	99	Party Music	Old Town Records	2004
4	100	Best of Rock and Roll	Old Town Records	2004

3. DJs on Demand has two new events coming up. One event is a fall football party and the other event is a sixties theme party. The DJs on Demand clients requested the songs shown in the table for their events. Add these songs to the copy_d_songs table using an implicit INSERT statement.

ID	Title	Duration	Type_Code
52	Surfing Summer	Not known	12
53	Victory Victory	5 min	12

```
create table copy_d_songs
as select * from d_songs
where 1=2;

alter table copy_d_songs drop column artist;

insert all
    into copy_d_songs values (52, 'Surfing Summer','Not Known',",12)
    into copy_d_songs values (53,'Victory Victory','5 min',",12)
select 1 from dual;

### ID ### TITLE ### DURATION ### TYPE_CODE

1 52 Surfing Summer Not Known 12
2 53 Victory Victory 5 min 12
```

4. Add the two new clients to the copy_d_clients table. Use either an implicit or an explicit INSERT.

Client_Number	First_Name	Last_Name	Phone	Email
6655	Ayako	Dahish	3608859030	dahisha@harbor.net
6689	Nick	Neuville	9048953049	nnicky@charter.net

```
create table copy_d_clients
as select * from d_clients
where 1=2;
insert all
  into copy d clients values (6655,'Ayako','Dahish',3608859030,'dahisha@harbor.net')
  into copy_d_clients values (6689,'Nick','Neuville',9048953049,'nnicky@charter.net')
select 1 from dual;

⊕ EMAIL

     1
                   6655 Ayako
                                    Dahish
                                                 3608859030 dahisha@harbor.net
     2
                   6689 Nick
                                    Neuville
                                                 9048953049 nnicky@charter.net
```

5. Add the new client's events to the copy_d_events table. The cost of each event has not been determined at this date

ID	Name	Event _Date	Description	Cost	Venue _ID	Package _Code	Theme _Code	Client_ Number
110	Ayako Anniversar y	07-Jul -2004	Party for 50, sixties dress, decorations		245	79	240	6655
115	Neuville Sports Banquet	09- Sep- 2004	Barbecue at residence, college allumni, 100 people		315	87	340	6689

create table copy_d_events as select * from d_events where 1=2;

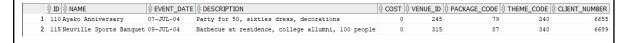
insert all

into copy_d_events values (110,'Ayako Anniversary',to_date('07/07/2004','dd/mm/yyyy'),'Party for 50, sixties dress, decorations',0,245,79,240,6655)

into copy d events values (115, 'Neuville Sports

Banquet',to_date('09/07/2004','dd/mm/yyyy'),'Barbecue at residence, college allumni, 100 people',0,315,87,340,6689)

select 1 from dual:



6. Create a table called rep_email using the following statement: CREATE TABLE rep_email (id NUMBER(3) CONSTRAINT rel_id_pk PRIMARY KEY, first_name VARCHAR2(10), last_name VARCHAR2(10), email_address VARCHAR2(10)) Populate this table by running a query on the employees table that includes only those employees who are REP's.

INSERT INTO rep_email(id ,first_name,last_name,email_address)
SELECT employee_id,first_name, last_name, email
FROM employees
WHERE job_id LIKE '%REP%';

select *from rep_email;

	∯ ID			
1	174	Ellen	Abel	EABEL
2	176	Jonathon	Taylor	JTAYLOR
3	178	Kimberely	Grant	KGRANT
4	202	Pat	Fay	PFAY

Practice 12.2

I. Identify the vocabulary word for each definition below.

UPDATE	Modifies existing rows in a table

Correlated subquery UPDATE	Retrieves information from one table & uses the information to update another table
Integrity Constraint	Ensures that the data adheres to a predefined set of rules
Correlated subquery DELETE	Deletes information on a linked table based on what was deleted on the other table
Delete	Removes existing rows from a table

Problem No: 1	No. Rows in Result:
Monique Tuttle, the manager of Global Fast Foods, sent a memo requesting an immediate change in prices. The price for a strawberry shake will be raised from \$3.59 to \$3.75, and the price for fries will increase to \$1.20. Make these changes to the copy_f_food_items table.	2
Text Code (No image):	
create the copy of the table "f_food_items" CREATE TABLE copy_f_food_items AS (SELECT * FROM f_food_items);update the price for strawberry shake UPDATE copy_f_food_items SET price = 3.75 WHERE food_item_number = 93;update the price for fries UPDATE copy_f_food_items SET price = 1.20 WHERE food_item_number = 90;show the result select food_item_number, description, price from copy_f_food_items;	
Image Result:	
\$\int \text{FOOD_ITEM_NUMBER} \text{\partial} \text{ DESCRIPTION} \text{\partial} \text{PRICE}\$ 1 90 Fries 1.09 2 93 Strawberry Shake 3.75	

Problem No: 2	No. Rows in Result:
Bob Miller and Sue Doe have been outstanding employees at Global Fast Foods. Management has decided to reward them by increasing their overtime pay. Bob Miller will receive an additional \$0.75 per hour and Sue Doe will receive an additional \$0.85 per hour. Update the copy_f_staffs table to show these new values. (Note: Bob Miller currently doesn't get overtime pay. What function do you need to use to convert a null value to 0?)	2

Text Code (No image): --create the copy of the table f_staffs CREATE TABLE copy_f_staffs AS (SELECT * FROM f_staffs); --update the overtime rate for Bob Miller update copy_f_staffs SET overtime_rate = nvl2(overtime_rate, overtime_rate + 0.75, 0.75) where id = 9; --update the overtime rate for Sue Doe update copy_f_staffs SET overtime_rate = nvl2(overtime_rate, overtime_rate + 0.85, 0.85) where id = 12; Image Result:

	∯ID			
1	9	Bob	Miller	0.75
2	12	Sue	Doe	11.1

Problem No: 3									
Add the orders shown to the Global Fast Foods copy_f_orders table:									
ORDER NUMBER ORDER DATE ORDER TOTAL CUST ID STAFF ID									
June 12, 2004	159.78	145	9						
5691 09-23-2004 145.98 225 12									
July 4, 2004	229.31	230	12						
	ORDER_DATE June 12, 2004 09-23-2004	ORDER_DATE ORDER_TOTAL June 12, 2004 159.78 09-23-2004 145.98	ORDER_DATE ORDER_TOTAL CUST_ID June 12, 2004 159.78 145 09-23-2004 145.98 225	ORDER_DATE ORDER_TOTAL CUST_ID STAFF_ID June 12, 2004 159.78 145 9 09-23-2004 145.98 225 12					

Text Code (No image):

```
--create a copy from the table f_orders

CREATE TABLE copy_f_orders AS (SELECT * FROM f_orders);
--insert of values

INSERT INTO copy_f_orders VALUES (5680, TO_DATE('June 12, 2004', 'Month dd, yyyy'), 159.78, 145, 9);

INSERT INTO copy_f_orders VALUES (5691, TO_DATE('09-23-2004', 'mm/dd/yyyy'), 145.98, 225,12);

INSERT INTO copy_f_orders VALUES (5701, TO_DATE('July 4, 2004', 'Month dd, yyyy'), 229.31, 230, 12);
--show the table copy_f_orders
select * from copy_f_orders
order by order_number;
```

Image Result:

	ORDER_NUMBER	ORDER_DATE	ORDER_TOTAL	CUST_ID	\$ STAFF_ID
1	5678	10-DEC-02	103.02	123	12
2	5680	12-JUN-04	159.78	145	9
3	5691	23-SEP-04	145.98	225	12
4	5701	04-JUL-04	229.31	230	12

Problem No: 4									No. Rows in Result:
Add the new customers shown below to the copy_f_customers table. You may already have added Katie Hernandez. Will you be able to add all these records successfully?								2	
	ID	PHONE_NUMBER NAME						PHONE_NUMBER	
	145	Katie	Hernandez	92 Chico Way	Los Angeles	CA	98008	8586667641	
	225	Daniel	Spode	1923 Silverado	Denver	СО	80219	7193343523	
	230	Adam	Zum	5 Admiral Way	Seattle	WA		4258879009	

Text Code (No image):

```
--creates the copy of the table f_customers
create table copy_f_customers as (select * from f_customers);
--insert the values into the copy table
INSERT INTO copy_f_customers VALUES (145,'Katie','Hernandez','92
Chico','Los Angeles','CA',98008,8586667641);
--
INSERT INTO copy_f_customers VALUES (225,'Daniel','Spode','1923
Silverado','Denver','CO',80219,7193343523);
--
INSERT INTO copy_f_customers
(id,first_name,last_name,address,city,state,zip,phone_number)
VALUES (230,'Adam','Zum','5 Admiral
Way','Seattle','WA',4258879009);
*it was not possible to add "Adam Zum" because the field 'Zip'
```

Image Result:

	∯ID		LAST_NAME		⊕ CITY	♦ STATE	∜ ZIP	PHONE_NUMBER
1	145	Katie	Hernandez	92 Chico	Los Angeles	CA	98008	8586667641
2	225	Daniel	Spode	1923Silverado	Denver	CO	80219	7193343523

cannot be null or blank; must have a number.

Problem No: 5	No. Rows in Result:
Sue Doe has been an outstanding Global Foods staff member and has been given a salary raise. She will now be paid the same as Bob Miller. Update her record in copy_f_staffs.	2
Text Code (No image):	
<pre>update copy_f_staffs set salary = (select salary from copy_f_staffs</pre>	

Problei	m No: 6					No. Rows in Res
Global Fast Foods is expanding their staff. The manager, Monique Tuttle, has hired Kai Kim. Not all information is available at this time, but add the information shown here.						1
25 Kai Kim 3-Nov-1988 6.75 Order Taker						
Text Co	ode (No image):				
salar VALUE	y, staff_	type) ai', 'Kim'		_	_	me, birthdate, dd, mon, yyyy'
Image	Result:					

Problem No: 7	No. Rows in Result:					
Now that all the information is available for Kai Kim, update his Global Fast Foods record to include the following: Kai will have the same manager as Sue Doe. He does not qualify for overtime. Leave the values for training, manager budget, and manager target as null.						
Text Code (No image) :						
<pre>UPDATE copy_f_staffs set manager_id = (select manager_id from copy_f_staffs where id = 12), overtime_rate = 0 where id = 25;</pre>						
Image Result:						
	ANAGER_BUDGET MANAGER_TARGET					
1 12 Sue Doe 01-JUL-80 10 11.1 (null) Order Taker 19 2 25 Kai Kim 03-NOV-98 6.75 0 (null) Order Taker 19	(null) (null) (null)					

Problem No: 8	No. Rows in Result:
Execute the following SQL statement. Record your results.	

DELETE from departments
WHERE department_id = 60;

Text Code (No image):

DELETE from departments
WHERE department_id = 60;

--It is not possible to delete the department_id = 60 because other registers or tables depend on it. The department_id is used as an foreign key for other table that already had registers with that department

Image Result:

Problem No: 9	No. Rows in Result:
Kim Kai has decided to go back to college and does not have the time to work and go to school. Delete him from the Global Fast Foods staff. Verify that the change was made.	3

Text Code (No image):

delete from copy_f_staffs where id = 25; SELECT * FROM copy_f_staffs;

Image Result:

	ID	\$ LAST_NAME		SALARY	OVERTIME_RATE	∜ TRAINING	\$STAFF_TYPE	MANAGER_ID	MANAGER_BUDGET	
1	12 Sue	Doe	01-JUL-80	10	11.1	(null)	Order Taker	19	(null)	(null)
2	9 Bob	Miller	19-MAR-79	10	0.75	Grill	Cook	19	(null)	(null)
3	19 Monique	Tuttle	30-MAR-69	60	(null)	(null)	Manager	(null)	50000	70000

Problem No: 10	No. Rows in Result:	
Create a copy of the employees table and call it lesson7_emp; Once this table exists, write a correlated delete statement that will delete any employees from the lesson7_employees table that also exist in the job_history table.		
Text Code (No image):		
create table lesson_7_emp as (select * from employee	s);	
<pre>DELETE from lesson_7_emp e where e.employee_id</pre>		

Practice 12.3

Problem 1.

When would you want a DEFAULT value?

Answer

When creating a row, no value is specified and I want the field to have a default value. For example, a column can be created and I want it to be populated with the current time when the row is created.

Problem 2.

Currently, the Global Foods F_PROMOTIONAL_MENUS table START_DATE column does not have SYSDATE set as DEFAULT. Your manager has decided she would like to be able to set the starting date of promotions to the current day for some entries. This will require three steps:

a. In your schema, Make a copy of the Global Foods F_PROMOTIONAL_MENUS table using the following SQL statement:

CREATE TABLE copy_f_promotional_menus AS (SELECT * FROM f promotional menus)

b. Alter the current START_DATE column attributes using:

ALTER TABLE
copy_f_promotional_menus
MODIFY(start_date DATE DEFAULT
SYSDATE)

		DATA_TYPE		DATA_DEFAULT		
1	CODE	VARCHAR2 (3 BYTE)	Yes	(null)	1	(null)
2	NAME	VARCHAR2 (30 BYTE)	No	(null)	2	(null)
3	START_DATE	DATE	No	SYSDATE	3	(null)
4	END_DATE	DATE	Yes	(null)	4	(null)
5	GIVE_AWAY	VARCHAR2(80 BYTE)	Yes	(null)	5	(null)

c. INSERT the new information and check to verify the results. INSERT a new row into the copy_f_promotional_menus table for the manager's new promotion. The promotion code is 120. The name of the promotion is 'New Customer.' Enter DEFAULT for the start date and '01-Jun-2005' for the ending date. The giveaway is a 10% discount coupon. What was the correct syntax used?

INSERT INTO copy_f_promotional_menus
(code,name,start_date,end_date,give_
away)

VALUES('120','New
Customer',DEFAULT,TO_DATE('01-Jun-20
05','dd-Mon-yyyy'),' 10% discount
coupon');

3 | 120 | New Customer | 04-OCT-22 | 01-JUN-05 | 10% discount coupon

Problem 3.

Allison Plumb, the event planning manager for DJs on Demand, has just given you the following list of CDs she acquired from a company going out of business. She wants a new updated list of CDs in inventory in an hour, but she doesn't want the original D CDS table changed. Prepare an updated inventory list just for her.

- a. Assign new cd_numbers to each new CD acquired.
- b. Create a copy of the D_CDS table called manager_copy_d_cds. What was the correct syntax used?

create table manager_copy_d_cds
as(select * from d_cds)

c. INSERT into the manager_copy_d_cds table each new CD title using an INSERT statement. Make up one example or use this data: 20, 'Hello World Here I Am', 'Middle Earth Records', '1998'
What was the correct syntax used?

insert into manager_copy_d_cds
values (20, 'Hello World Here I Am',
'Middle Earth Records', '1998')

		∯ TITLE		
1	90	The Celebrants Live in Concert	Old Town Records	1997
2	91	Party Music for All Occasions	The Music Man	2000
3	92	Back to the Shire	Middle Earth Records	2002
4	93	Songs from My Childhood	Old Town Records	1999
5	94	Carpe Diem	R and B Inc.	2000
6	95	Here Comes the Bride	The Music Man	2001
7	96	Graduation Songbook	Tunes Are Us	1998
8	98	Whirled Peas	Old Town Records	2004
9	20	Hello World Here I Am	Middle Earth Records	1998

d. Use a merge statement to add to the manager_copy_d_cds table, the CDs from the original table. If there is a match, update the title and year. If not, insert the data from the original table. What was the correct syntax used?

MERGE INTO manager_copy_d_cds tgt
USING d_cds src
ON (src.cd_number = tgt.cd_number)
WHEN MATCHED THEN UPDATE
SET tgt.title = src.title,
tgt.producer = src.producer,
tgt.year = src.year
WHEN NOT MATCHED THEN INSERT
VALUES (src.cd_number, src.title,
src.producer, src.year);

	CD_NUMBER	♦ TITLE		∜ YEAR
1	90	The Celebrants Live in Concert	Old Town Records	1997
2	91	Party Music for All Occasions	The Music Man	2000
3	92	Back to the Shire	Middle Earth Records	2002
4	93	Songs from My Childhood	Old Town Records	1999
5	94	Carpe Diem	R and B Inc.	2000
6	95	Here Comes the Bride	The Music Man	2001
7	96	Graduation Songbook	Tunes Are Us	1998
8	98	Whirled Peas	Old Town Records	2004
9	20	Hello World Here I Am	Middle Earth Records	1998

Problem 4.

Run the following 3 statements to create 3 new tables for use in a Multi-table insert statement. All 3 tables should be empty on creation, hence the WHERE 1=2 condition in the WHERE clause.

CREATE TABLE sal_history (employee_id, hire_date, salary) AS SELECT employee_id, hire_date, salary FROM employees WHERE 1=2;

CREATE TABLE mgr_history (employee_id, manager_id, salary) AS SELECT employee_id, manager_id, salary FROM employees WHERE 1=2;

CREATE TABLE special_sal (employee_id, salary) AS SELECT employee_id, salary FROM employees WHERE 1=2;

Once the tables exist in your account, write a Multi-Table insert statement to first select the employee_id, hire_date, salary, and manager_id of all employees. If the salary is more than 20000 insert the employee_id and salary into the special_sal table. Insert the details of employee_id, hire_date, and salary into the sal history table. Insert the employee id, manager id, and salary into the mgr history table.

a. Use a merge statement to add to the manager_copy_d_cds table, the CDs from the original table. If there is a match, update the title and year. If not, insert the data from the original table. What was the correct syntax used?

INSERT FIRST
WHEN salary > 20000 THEN
INTO special_sal
VALUES(employee_id, salary)
ELSE
INTO sal_history
VALUES(employee_id, hire_date, salary)
INTO mgr_history
VALUES(employee_id, manager_id, salary)
SELECT employee_id, salary, hire_date, manager_id
FROM employees;

SELECT COUNT(*) as rows_in_mgr_history FROM mgr_history; SELECT COUNT(*) as rows_in_special_sal FROM special_sal; SELECT COUNT(*) as rows in sal history FROM sal history;

