

IT 315 - ADVANCE DATABASE SYSTEMS

NAME: JUDAH PAULO VIÑAS INSTRUCTOR: MS. JOCELYN LIPATA

PROGRAM, YEAR & SECTION: BSIT 3F COURSE: IT 315 - ADVANCE DATABASE SYSTEMS

# **ACTIVITIES COMPILATION**

### **ACTIVITY 1: JOIN RESEARCH**

- 1. What is an SQL **JOIN** command, and when do you need it?
  - An SQL JOIN command combines rows from two or more tables based on a common column. When you wish to retrieve data from many tables which have a common key or field, you need to use a JOIN.
- 2. How would you write a query to JOIN these two tables?
  - Assuming you have two tables, *Table1* and *Table2*, and you want to join them on a common column, say *id*, the SQL query might look like this:

SELECT Table1.column1, Table2.column2 FROM Table1 JOIN Table2 ON Table1.id = Table2.id;

- 3. What types of JOINs are there?
  - INNER JOIN: Returns only rows where there is a match between both tables.
  - **LEFT (OUTER) JOIN:** Returns all rows from the left table and the corresponding rows from the right table. If no match is found, the right side returns NULL.
  - **RIGHT (OUTER) JOIN:** Returns all rows from the right table as well as the rows that match those in the left table. If no match is found, the left side returns NULL.
  - **FULL (OUTER) JOIN:** When a match is found in one of the tables, all rows are returned. If there is no match, NULL is returned in the table's columns.

#### 4. What is an OUTER JOIN?

- The **FULL OUTER JOIN** (aka **OUTER JOIN**) is used to return all of the records that have values in either the left or right table.
- 5. What is the difference between an SQL INNER JOIN and an SQL LEFT JOIN?
  - Use an **INNER JOIN** when you want to retrieve only the rows where there is a match in both tables based on the join condition. Use a **LEFT JOIN** when you want to retrieve all rows from the left table and the matched rows from the right table, with NULL values for non-matching rows.
- 6. What is the difference between a LEFT JOIN and a FULL JOIN?
  - LEFT JOIN returns only unmatched rows from the left table, as well as matched rows
    in both tables. FULL OUTER JOIN returns unmatched rows from both tables, as well
    as matched rows in both tables.
- 7. Write a query that will JOIN these two tables so that all rows from Table 1 are in the result.
  - Assuming you have *Table1* and *Table2* and want all rows from *Table1*, you would use a **LEFT JOIN**:

SELECT Table1.column1, Table2.column2 FROM Table1



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#### LEFT JOIN Table 2 ON Table 1.id = Table 2.id;

- 8. How do you join more than two tables?
  - To join more than two tables, you can chain multiple JOIN clauses. For example:

SELECT Table1.column1, Table2.column2, Table3.column3 FROM Table1 JOIN Table2 ON Table1.id = Table2.id JOIN Table3 ON Table2.id = Table3.id;

- 9. How do you join a table to itself?
  - Joining a table to itself is called a self-join. You can do this using table names :

SELECT A.column1, B.column2 FROM Table1 A JOIN Table1 B ON A.id = B.parent\_id;

- 10. Must the JOIN condition be equality?
  - No, the JOIN condition does not have to be equality. You can use other conditions, such as inequalities or ranges. For example:

SELECT A.column1, B.column2 FROM Table1 A JOIN Table2 B ON A.column1 > B.column2;



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### **ACTIVITY 2: BASIC SQL QUERY**





			emp ID	first name	last name	email	hourly pay	hire date
		<sub> </sub>	1	Judah Paulo	Vinas	NULL	100.00	2024-08-29
			2	John Mark David		NULL	100.00	2024-08-29
			3	Roland Joseph	Cordez	NULL	100.00	2024-08-29
			4	Johnrick	Babila	NULL	100.00	2024-08-29
37	7. Change the position of email next to last name		5	John Patrick	Acbang	NULL	100.00	2024-08-29
38 •	ALTER TABLE employees MODIFY COLUMN email varchar(50) AFTER last name;		6	Dince	Deliva	NULL	100.00	2024-08-29
50 0	ALTER TABLE employees Mobilit Colomin email varietial (30) AFTER Tast_Hame;		7			NULL	50.00	
			8	Juan	Lunatic	NULL		2024-08-29
			9	Dave	Manabat	NULL	29.00	2024-08-29
			-	Jose	Motte	NULL	75.00	2024-08-29
			10 NULL	Dobido	Baat NULL	NULL	90.00 NULL	2024-08-29 NULL
			11015	11000	Hote	11000	11022	11022
			emp_IC	) first_name	last_name	email	hourly_pay	hire_date
		▶	1	Judah Paulo	Vinas	NULL	100.00	2024-08-29
			2	John Mark David	Pajenago	NULL	100.00	2024-08-29
			3	Roland Joseph	Cordez	NULL	100.00	2024-08-29
			4	Johnrick	Babila	NULL	100.00	2024-08-29
40	8. Add 2 records populate emp ID, last name and first name only		5	John Patrick	Acbang	NULL	100.00	2024-08-29
41 •	<pre>INSERT INTO employees (emp ID, last name, first name) VALUE (11, "Skibidi", "Cophal");</pre>		6	Dince	Deliva	NULL	100.00	2024-08-29
42 •			7	Juan	Lunatic	NULL	50.00	2024-08-29
42	<pre>INSERT INTO employees (emp_ID, last_name, first_name) VALUE (12, "Sap","Neg-ah");</pre>		8	Dave	Manabat	NULL	29.00	2024-08-29
			9	Jose	Motte	NULL	75.00	2024-08-29
			10	Dobido	Baat	NULL	90.00	2024-08-29
			11	Cophal	Skibidi	NULL	NULL	NULL
			12		Sap	NULL	NULL	NULL
			THE REAL PROPERTY.	Neg-ah พบเบ		NULL	NULL	NULL
		l a	110/44	11000	NULL			NOLL
44 45 •	9. Put a value on email column  UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;						l barre	
45 • 46 •	<pre>UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1; UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;</pre>		emp_ID	first_name last	name email		hourly_	pay hire_date
45 •	<pre>UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;</pre>	<b>•</b>	emp_ID		name email juvinas@m	ny.cspc.edu. p@my.cspc.	ph 100.00	
45 • 46 •	<pre>UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1; UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;</pre>	<b>•</b>	emp_ID 1 2 2 3 F	first_name last Judah Paulo Vinas	name email juvinas@m ago jopajenago	ny.cspc.edu.	ph 100.00 edu.ph 100.00	pay hire_date 2024-08-2
45 • 46 • 47 • 48 •	UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;  UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;  UPDATE employees SET email = "rocordez@my.cspc.edu.ph" WHERE emp_ID = 3;  UPDATE employees SET email = "jobabila@my.cspc.edu.ph" WHERE emp_ID = 4;	<b>&gt;</b>	emp_ID 1 2 3 4 1	first_name last Judah Paulo Vina John Mark David Paje Roland Joseph Cord Johnrick Babil	name email juvinas@m ago jopajenag z rocordez@ jobabila@r	ny.cspc.edu. p@my.cspc. omy.cspc.ed ny.cspc.edu	ph 100.00 edu.ph 100.00 u.ph 100.00 u.ph 100.00	pay hire_date 2024-08-2 2024-08-2 2024-08-2 2024-08-2
45 • 46 • 47 • 48 • 49 •	UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;  UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;  UPDATE employees SET email = "rocordez@my.cspc.edu.ph" WHERE emp_ID = 3;  UPDATE employees SET email = "jobabila@my.cspc.edu.ph" WHERE emp_ID = 4;  UPDATE employees SET email = "joacbang@my.cspc.edu.ph" WHERE emp_ID = 5;	<b>•</b>	emp_ID 1 2 3 4 5 5	first_name last Judah Paulo Vinas John Mark David Paje Robolninick Babil John Patrick Acba	name email juvinas@m ago jopajenagi 22 rocordez@ jobabila@r ng joacbang@	ny.cspc.edu. p@my.cspc. my.cspc.edu my.cspc.edu my.cspc.edu	.ph 100.00 edu.ph 100.00 u.ph 100.00 i.ph 100.00 du.ph 100.00	pay hire_date 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2
45 • 46 • 47 • 48 • 49 • 50 •	UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;  UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;  UPDATE employees SET email = "rocordez@my.cspc.edu.ph" WHERE emp_ID = 3;  UPDATE employees SET email = "jobabila@my.cspc.edu.ph" WHERE emp_ID = 4;  UPDATE employees SET email = "joacbang@my.cspc.edu.ph" WHERE emp_ID = 5;  UPDATE employees SET email = "dideliva@my.cspc.edu.ph" WHERE emp_ID = 6;	•	emp_ID 1 2 2 3 F 4 5 5 6 E	first_name last Judah Paulo Vina John Mark David Paje Roland Joseph Cord Johnrick Babil	name email juvinas@r ago jopajenagg zz rocordez@ jobabila@r ng joacbang@	ny.cspc.edu. p@my.cspc.ed my.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu	.ph 100.00 edu.ph 100.00 u.ph 100.00 i.ph 100.00 du.ph 100.00 du.ph 100.00	pay hire_date 2024-08-2 2024-08-2 2024-08-2 2024-08-2
45 • 46 • 47 • 48 • 49 •	UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;  UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;  UPDATE employees SET email = "rocordez@my.cspc.edu.ph" WHERE emp_ID = 3;  UPDATE employees SET email = "jobabila@my.cspc.edu.ph" WHERE emp_ID = 4;  UPDATE employees SET email = "joacbang@my.cspc.edu.ph" WHERE emp_ID = 5;	•	emp_ID 1 2 2 3 F 4 5 5 6 I 7 5 7	first_name last judah Paulo Vinas john Mark David Paje koland Joseph Cord johnrick Badid john Patrick Adbe jince Deliv	name email juvinas@ri ago jopajenagi zz rocordez@ jobabila@ri joacbang@ dideliva@ri ic julunatic@	ny.cspc.edu. p@my.cspc. my.cspc.edu my.cspc.edu my.cspc.edu	.ph 100.00 edu.ph 100.00 lu.ph 100.00 l.ph 100.00 du.ph 100.00 lu.ph 100.00 l.ph 50.00	pay hire_date 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2
45 • 46 • 47 • 48 • 49 • 50 •	UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;  UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;  UPDATE employees SET email = "rocordez@my.cspc.edu.ph" WHERE emp_ID = 3;  UPDATE employees SET email = "jobabila@my.cspc.edu.ph" WHERE emp_ID = 4;  UPDATE employees SET email = "joacbang@my.cspc.edu.ph" WHERE emp_ID = 5;  UPDATE employees SET email = "dideliva@my.cspc.edu.ph" WHERE emp_ID = 6;	<b>&gt;</b>	emp_ID	first_name last Judah Paulo Vinas John Mark David Paje Roland Joseph Cob Johnrick Babil John Patrick Acba Jince Deliv Juan Luna Jave Mani Jose Mott	name email juvinas@n ago jopajenagi zz rocordez@ jobabila@n joacbang@ dideliva@n julunatic@ bat damanaba	ny.cspc.edu. p@my.cspc.ed my.cspc.edu pmy.cspc.edu ny.cspc.edu my.cspc.edu t@my.cspc.edu	ph 100.00 edu.ph 100.00 u.ph 100.00 u.ph 100.00 du.ph 100.00 du.ph 100.00 u.ph 100.00 u.ph 50.00 edu.ph 29.00 u.ph 75.00	pay hire_date 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2
45 • 46 • 47 • 48 • 49 • 50 • 51 • 52 •	UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;  UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;  UPDATE employees SET email = "rocordez@my.cspc.edu.ph" WHERE emp_ID = 3;  UPDATE employees SET email = "jobabila@my.cspc.edu.ph" WHERE emp_ID = 4;  UPDATE employees SET email = "joacbang@my.cspc.edu.ph" WHERE emp_ID = 5;  UPDATE employees SET email = "dideliva@my.cspc.edu.ph" WHERE emp_ID = 6;  UPDATE employees SET email = "julunatic@my.cspc.edu.ph" WHERE emp_ID = 7;  UPDATE employees SET email = "damanabat@my.cspc.edu.ph" WHERE emp_ID = 8;	<b>&gt;</b>	emp_ID	first_name last Uudah Paulo Vinas John Mark David Paje Koland Joseph Cord Johnrick Babil John Patrick Acbe Joince Deliv Juan Luna Jose Mont Jose Mott Dobido Baat	name email juvinas@r ago jopajenag zz rocordez@ jobabla@r g joacbang@ dideliva@r ic julunatc@ bat damanaba jomotte@r dobaat@m	ny.cspc.edu. p@my.cspc.ed my.cspc.edu pmy.cspc.edu pmy.cspc.edu t@my.cspc.edu ny.cspc.edu ny.cspc.edu.	ph 100.00 edu.ph 100.00 u.ph 100.00 u.ph 100.00 u.ph 100.00 u.ph 50.00 u.ph 50.00 edu.ph 29.00 u.ph 90.00	pay hire_date 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2
45 • 46 • 47 • 48 • 49 • 50 • 51 • 52 • 53 •	UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;  UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;  UPDATE employees SET email = "rocordez@my.cspc.edu.ph" WHERE emp_ID = 3;  UPDATE employees SET email = "jobabila@my.cspc.edu.ph" WHERE emp_ID = 4;  UPDATE employees SET email = "joacbang@my.cspc.edu.ph" WHERE emp_ID = 5;  UPDATE employees SET email = "dideliva@my.cspc.edu.ph" WHERE emp_ID = 6;  UPDATE employees SET email = "julunatic@my.cspc.edu.ph" WHERE emp_ID = 7;  UPDATE employees SET email = "damanabat@my.cspc.edu.ph" WHERE emp_ID = 8;  UPDATE employees SET email = "jomotte@my.cspc.edu.ph" WHERE emp_ID = 9;	<b>&gt;</b>	emp_ID	first_name last Judah Paulo Vinae John Mark David Pa John Mark David Pa John Mark David Pa John Patrick Acbel John Patrick Acbel John Luna Jave Mani Jose Mott Jobidio Baat Cophal Slabi	name email juvinas@n jopajenagu jopajenagu jobabila@r jobabila@r jodabang@ dideliva@n ic julunatic@ tomatodobat@m ic coskibidi@	ny.cspc.edu. p@my.cspc.ed my.cspc.ed my.cspc.ed py.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu	ph 100.00 edu.ph 100.00 u.ph 100.00 u.ph 100.00 u.ph 100.00 u.ph 50.00 u.ph 50.00 edu.ph 29.00 u.ph 50.00 edu.ph 90.00 u.ph 90.00 u.ph	pay hire_date 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2
45 • 46 • 47 • 48 • 49 • 50 • 51 • 52 •	UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;  UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;  UPDATE employees SET email = "rocordez@my.cspc.edu.ph" WHERE emp_ID = 3;  UPDATE employees SET email = "jobabila@my.cspc.edu.ph" WHERE emp_ID = 4;  UPDATE employees SET email = "joacbang@my.cspc.edu.ph" WHERE emp_ID = 5;  UPDATE employees SET email = "dideliva@my.cspc.edu.ph" WHERE emp_ID = 6;  UPDATE employees SET email = "julunatic@my.cspc.edu.ph" WHERE emp_ID = 7;  UPDATE employees SET email = "damanabat@my.cspc.edu.ph" WHERE emp_ID = 8;	<b>&gt;</b>	emp_ID	first_name last Uudah Paulo Vinas John Mark David Paje Koland Joseph Cord Johnrick Babil John Patrick Acbe Joince Deliv Juan Luna Jose Mont Jose Mott Dobido Baat	name email juvinas@n jopajenagu jopajenagu jobabila@r jobabila@r jodabang@ dideliva@n ic julunatic@ tomatodobat@m ic coskibidi@	ny.cspc.edu. p@my.cspc.ed my.cspc.edu pmy.cspc.edu pmy.cspc.edu t@my.cspc.edu ny.cspc.edu ny.cspc.edu.	ph 100.00 edu.ph 100.00 u.ph 100.00 u.ph 100.00 u.ph 100.00 u.ph 50.00 u.ph 50.00 edu.ph 29.00 u.ph 50.00 edu.ph 90.00 u.ph 90.00 u.ph	pay hire_date 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2
45 • 46 • 47 • 48 • 49 • 50 • 51 • 52 • 53 •	UPDATE employees SET email = "juvinas@my.cspc.edu.ph" WHERE emp_ID = 1;  UPDATE employees SET email = "jopajenago@my.cspc.edu.ph" WHERE emp_ID = 2;  UPDATE employees SET email = "rocordez@my.cspc.edu.ph" WHERE emp_ID = 3;  UPDATE employees SET email = "jobabila@my.cspc.edu.ph" WHERE emp_ID = 4;  UPDATE employees SET email = "joacbang@my.cspc.edu.ph" WHERE emp_ID = 5;  UPDATE employees SET email = "dideliva@my.cspc.edu.ph" WHERE emp_ID = 6;  UPDATE employees SET email = "julunatic@my.cspc.edu.ph" WHERE emp_ID = 7;  UPDATE employees SET email = "damanabat@my.cspc.edu.ph" WHERE emp_ID = 8;  UPDATE employees SET email = "jomotte@my.cspc.edu.ph" WHERE emp_ID = 9;	<b>&gt;</b>	emp_ID	first_name last Judah Paulo Vinas Judah Paulo Vinas Judah Paulo Vinas Judah Paulo Paje Judah Patrick Acbe John Patrick Acbe Juan Luna Jose Mott Jobido Baat Jocophal Slábi Judeg-sh Sap	pame email juvinas@r ago jopajenagi z rocordez@ i jobabila@r ig joacbang@ iddeliva@r ic julunatic@ bat damanaba jomotte@r dobaat@r coskibdi@ nesap@m	ny.cspc.edu. p@my.cspc.ed my.cspc.ed my.cspc.ed py.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu my.cspc.edu	ph 100.00 edu.ph 100.00 u.ph 100.00 u.ph 100.00 du.ph 100.00 u.ph 100.00 u.ph 100.00 u.ph 50.00 edu.ph 29.00 r.ph 75.00 p.ph 90.00 p.ph 90.00	pay hire_date 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2 2024-08-2



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#### **ACTIVITY 3: LIBRARY TABLES**





```
-- Create table book_review
                                       56
                                       57 • ⊝ CREATE TABLE book_review(
                                                                  book_id int,
                                       58
                                                                 review varchar(1000),
                                                                  author varchar(100)
                                       60
                                       61
                                                      - );
          -- Insert values in table book_review
                                                                                                                                                                                                                                               author
         INSERT INTO book_review (book_id, review, author) VALUE ("1", "An incredible book", "Sylvia Jones");
                                                                                                                                                                                         An incredible book
                                                                                                                                                                                                                                              Sylvia Jones
        INSERT INTO book_review (book_id, review, author) VALUE ("1", "Great, although it has some flaws", "Jessica Parker");
INSERT INTO book_review (book_id, review, author) VALUE ("2", "Dennis Strokes takes the reader for a ride full of emot:
66 •
                                                                                                                                                                                        Great, although it has some flaws
                                                                                                                                                                                                                                              Jessica Parker
67 •
                                                                                                                                                                             2
                                                                                                                                                                                        Dennis Strokes takes the reader for a ride full o...
Incredible craftsmanship of the author
                                                                                                                                                                                                                                              Thomas Green
        INSERT INTO book_review (book_id, review, author) VALUE ("3", "Incredible craftsmanship of the author", "Martin Freemai INSERT INTO book_review (book_id, review, author) VALUE ("4", "Not the best book by this author", "Jude Falth");
INSERT INTO book_review (book_id, review, author) VALUE ("5", "Claudia Johnson at her best!", "Joe Marqiz");
                                                                                                                                                                                                                                             Martin Freeman
                                                                                                                                                                                         Not the best book by this author
                                                                                                                                                                                                                                              Jude Falth
                                                                                                                                                                                     Claudia Johnson at her best!
                                                                                                                                                                                                                                              Joe Margiz
71 •
         INSERT INTO book_review (book_id, review, author) VALUE ("6", "I cannot recall more captivating plot", "Alexander Durh
                                                                                                                                                                                        I cannot recall more captivating plot
                                                                                                                                                                                                                                              Alexander Durham
        SELECT * FROM book_review;
72 •
```

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#### **ACTIVITY 4: JOIN**

#### Table used:

#### author

	id	author_name	birth_year	death_year
•	1	Marcella Cole	1983	NULL
	2	Lisa Mullins	1891	1950
	3	Dennis Stokes	1935	1994
	4	Randolph Vasquez	1957	2004
	5	Daniel Branson	1965	1990
	NULL	NULL	NULL	NULL

#### book

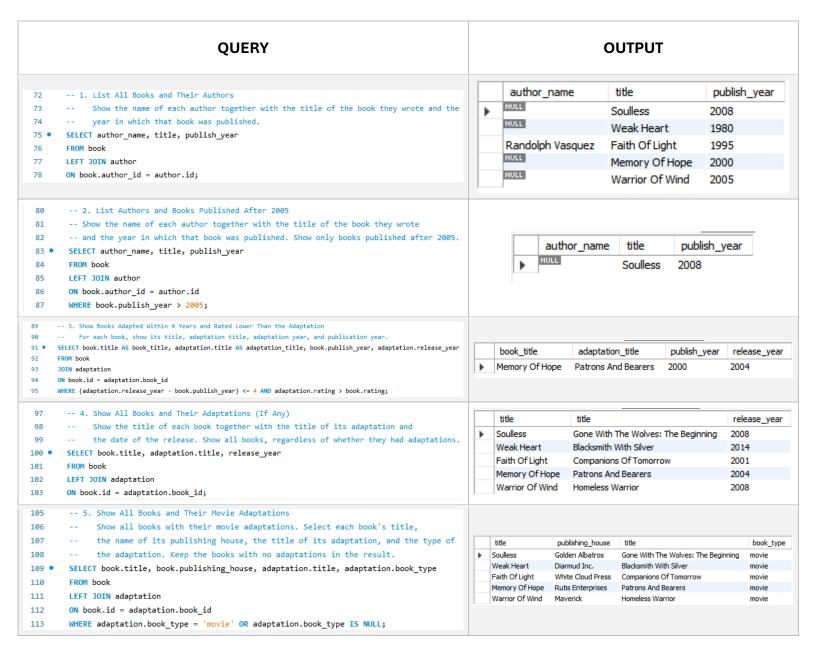
	id	author_id	title	publish_year	publishing_house	rating
•	1	NULL	Soulless	2008	Golden Albatros	4.30
	2	NULL	Weak Heart	1980	Diarmud Inc.	3.80
	3	4	Faith Of Light	1995	White Cloud Press	4.30
	4	NULL	Memory Of Hope	2000	Rutis Enterprises	2.70
	5	6	Warrior Of Wind	2005	Maverick	4.60
	NULL	NULL	NULL	NULL	NULL	NULL

### adaptation

	book_id	book_type	title	release_year	rating
•	1	movie	Gone With The Wolves: The Beginning	2008	3.00
	2	movie	Blacksmith With Silver	2014	4.30
	3	movie	Companions Of Tomorrow	2001	4.20
	4	movie	Patrons And Bearers	2004	3.20
	5	movie	Homeless Warrior	2008	4.00
	NULL	NULL	NULL	NULL	NULL

### book\_review

	book_id	review	author
•	1	An incredible book	Sylvia Jones
	1	Great, although it has some flaws	Jessica Parker
	2	Dennis Strokes takes the reader for a ride full o	Thomas Green
	3	Incredible craftsmanship of the author	Martin Freeman
	4	Not the best book by this author	Jude Falth
	5	Claudia Johnson at her best!	Joe Marqiz
	6	I cannot recall more captivating plot	Alexander Durham





116	Join the book review and book tables using a RIGHT JOIN. Show the title		title		review		author	
17	of the book, the corresponding review, and the name of the review's author.	•	Soulless		An incredible book		Sylvia Jones	
			Soulless		Great, although it has so		Jessica Parker	
118	constant all soons, even those that he is reviewed.	_	Weak H			reader for a ride full o	Thomas Green Martin Freeman	
119 •	SELECT book.title, book_review.review, book_review.author	-	_			Incredible craftsmanship of the author		
120	FROM book		Memory				Jude Falth Joe Margiz	
121	RIGHT JOIN book_review		NULL	OI WING	I cannot recall more capt		Alexander Durha	
122	ON book.id = book_review.book_id;				1 carmot recammore capt	reading place	rickander barria	
124	7. List All the Books and All the Authors							
125	Display the title of each book along with the name of its author.				title	author_name		
126	Show all books, even those without an author. Show all authors,			<b>b</b>	Soulless	NULL		
127	even those who haven't published a book yet. Use a FULL JOIN.			-	Weak Heart	NULL		
128 •	SELECT book.title, author.author name							
129	FROM book				Faith Of Light	Randolph Vasqu	iez	
130	LEFT JOIN author				Memory Of Hope	NULL		
131	ON book.author_id = author.id				Warrior Of Wind	NULL		
132	UNION				NULL	Marcella Cole		
133	SELECT book.title, author.author_name				NULL	Lisa Mullins		
134	FROM book				NULL	Dennis Stokes		
135	RIGHT JOIN author				NULL	Daniel Branson		
136	<pre>ON book.author_id = author.id;</pre>							

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### **ACTIVITY 5: VIEW**

### Table used:

### employee

	emp_num	emp_title	emp_Iname	emp_fname	emp_bod	emp_hire_date	emp_area_code	emp_phone	park_code
•	100	Ms	Calderdale	Emma	1972-06-15	1992-03-15	101	324-9652	FR1001
	101	Mr	Ricardo	Marshel	1978-03-19	1996-04-25	6731	623-1346	UK3452
	102	Mr	Arshad	Arif	1969-11-14	1990-12-20	7253	675-8993	FR1001
	103	Ms	Roberts	Anne	1974-10-16	1994-08-16	8127	135-4123	UK3452
	104	Ms	Denver	Enrica	1980-11-08	2001-10-20	8427	985-2342	ZA1342
	105	Ms	Namowa	Mirrelle	1998-03-14	2006-11-03	181	890-3243	FR1001
	106	Ms	Smith	Gemma	1968-02-12	1989-01-05	1231	120-2311	ZA1342
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

### tparkssold

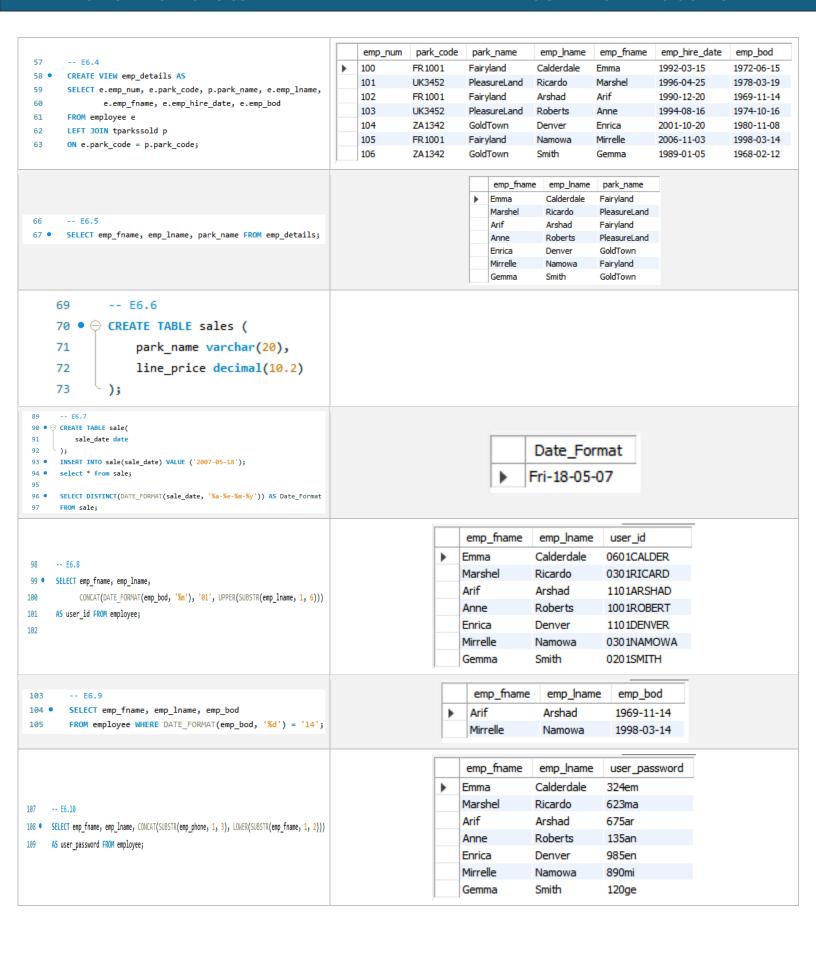
	park_code	park_name	park_city	park_country
•	FR1001	Fairyland	PARIS	FR
	UK3452	PleasureLand	STOKE	UK
	ZA1342	GoldTown	JOHANNESBURG	ZA

### sales

	park_name	line_price
•	FairyLand	15
	FairyLand	140
	GoldTown	12
	GoldTown	115
	PleasureLand	22
	PleasureLand	168

	QUERY						OUTP	UT			
25	E6.1										
26 •	CREATE VIEW empfr AS										
27	SELECT *	_	emp_num	emp_title	emp_Iname	emp_fname	emp_bod	emp_hire_date	emp_area_code	emp_phone	park_code
28	FROM employee	-	100	Ms Mr	Calderdale Arshad	Emma Arif	1972-06-15 1969-11-14	1992-03-15 1990-12-20	101 7253	324-9652 675-8993	FR1001 FR1001
			105	Ms	Namowa	Mirrelle	1998-03-14	2006-11-03	181	890-3243	FR1001
29	WHERE park_code = 'FR1001'										
30	WITH CHECK OPTION;										
33	E6.2										
34 •	UPDATE empfr		emp_num	emp_title	emp_Iname	emp_fname	emp_bod	emp_hire_date	emp_area_code	emp_phone	park_code
	•	-	100	Ms Mr	Calderdale Arshad	Emma Arif	1972-06-15	1992-03-15	101	324-9652	FR1001
35	<b>SET</b> emp_phone = '324-9652'		102 105	Ms	Namowa	Mirrelle	1969-11-14 1998-03-14	1990-12-20 2006-11-03	7253 181	675-8993 890-3243	FR 1001 FR 1001
36	WHERE emp_num = 100;										
40	E6.3										
41 • ⊖	CREATE TABLE tparkssold (										
42	<pre>park_code varchar(10),</pre>										
43	park_name varchar(35),										
44	<pre>park_city varchar(50),</pre>										
45	<pre>park_country char(2)</pre>										
46	);										







#### Table used:

## customer

#### custid custname Car\_number Phone\_number Register\_date WKM 1234 P001 David Lim 139845263 2012-06-14 P002 Abu Hassan DBA 8999 126377298 2023-05-14 P003 Lw Ban Huat PFL 3434 197894563 2005-01-14 Karigalan BGN 2511 112356897 P004 2023-05-13 P007 Kamal Ibrahim WEP1103 145689471 2012-07-14

### component\_claim

	daimID	compID	quantity
•	CL001	KK002	1
	CL001	KK005	2
	CL003	KK001	2
	CL012	KK003	1
	CL004	KK001	2
	CL002	KK003	1
	CL003	KK003	1

### claim

	daimID	daim_date	custid
•	CL001	2002-06-14	P0002
	CL002	2010-07-14	P0001
	CL003	2024-07-13	P0004
	CL004	2005-08-14	P0002
	CL012	2007-07-14	P0003
	NULL	NULL	NULL

### car\_component

	compID	compName	price
•	KK001	ISWARA Rear Lamp	100
	KK002	WIRA Front Mirror	450
	KK003	ISWARA Front Mirror	500
	KK004	WAJA Break Lamp	250
	KK005	WIRA Front Lamp	350
	NULL	NULL	NULL

QUERY	ОИТРИТ
66 1. 67 • SELECT MIN(price) AS MINPRICE 68 FROM car_component;	MINPRICE  100
70 2. 71 • SELECT MAX(price) AS MAXPRICE 72 FROM car_component;	MAXPRICE  ▶ 500
74 3. 75 • SELECT AVG(price) AS AVGPRICE 76 FROM car_component;	AVGPRICE ▶ 330.0000
78 4. 79 • SELECT AVG(quantity) AS AVGQUANTITY 80 FROM component_claim;	AVGQUANTITY  1.4286
82 5. 83 • SELECT SUM(price) 84 FROM car_component;	SUM(price)  ► 1650
86 6. 87 • SELECT SUM(quantity) 88 FROM component_claim;	SUM(quantity)  10



	90 7. 91 • SELECT COUNT(custid) 92 FROM customer;			COUNT(custid)  5	)	
	94 8. 95 • SELECT COUNT(claimID) 96 FROM claim;			COUNT(claimID	D)	
98 99 •	9.  CREATE VIEW CUSTOMER_CLAIM AS  SELECT C.custid AS customer_id, C.custname AS name, C.Car_number, CL.claim_date					
101 102 103 104 •	FROM customer C  JOIN claim CL  ON C.custid = CL.custid;  SELECT * FROM CUSTOMER_CLAIM;					
101 102 103	FROM customer C  JOIN claim CL  ON C.custid = CL.custid;		compID	company_name	quantity	price
101 102 103 104 •	FROM customer C  JOIN claim CL  ON C.custid = CL.custid;  SELECT * FROM CUSTOMER_CLAIM;	<b>•</b>	compID KK002	company_name WIRA Front Mirror	quantity	price 450
101 102 103 104 •	FROM customer C  JOIN claim CL  ON C.custid = CL.custid;  SELECT * FROM CUSTOMER_CLAIM;  10.	<b>&gt;</b>	<u> </u>			
101 102 103 104 • 108 109 •	FROM customer C  JOIN claim CL  ON C.custid = CL.custid;  SELECT * FROM CUSTOMER_CLAIM;  10.  CREATE VIEW car_claim AS	<b>&gt;</b>	KK002	WIRA Front Mirror	1	450
101 102 103 104 • 108 109 • 110	FROM customer C  JOIN claim CL  ON C.custid = CL.custid;  SELECT * FROM CUSTOMER_CLAIM;  10.  CREATE VIEW car_claim AS  SELECT CC.compID, CC.compName AS company_name, CL.quantity, CC.price	<b>&gt;</b>	KK002 KK005	WIRA Front Mirror WIRA Front Lamp	1 2	450 350
101 102 103 104 • 108 109 • 110 111	FROM customer C JOIN claim CL ON C.custid = CL.custid; SELECT * FROM CUSTOMER_CLAIM;  10. CREATE VIEW car_claim AS SELECT CC.compID, CC.compName AS company_name, CL.quantity, CC.price FROM COMPONENT_CLAIM CL	<b>&gt;</b>	KK002 KK005 KK001	WIRA Front Mirror WIRA Front Lamp ISWARA Rear Lamp	1 2 2	450 350 100
101 102 103 104 • • • • • • • • • • • • • • • • • • •	FROM customer C JOIN claim CL ON C.custid = CL.custid; SELECT * FROM CUSTOMER_CLAIM;  10. CREATE VIEW car_claim AS SELECT CC.compID, CC.compName AS company_name, CL.quantity, CC.price FROM COMPONENT_CLAIM CL JOIN CAR_COMPONENT CC	<b>&gt;</b>	KK002 KK005 KK001 KK003	WIRA Front Mirror WIRA Front Lamp ISWARA Rear Lamp ISWARA Front Mirror	1 2 2 1	450 350 100 500



### IT 315 - ADVANCE DATABASE SYSTEMS

### **ACTIVITY 7: PROCEDURE**

	QUERY	ОИТРИТ					
	4 Create table Inventory						
	5 ● ⊝ CREATE TABLE Inventory(						
	6 ItemID INT AUTO_INCREMENT PRIMARY KEY,						
	7 ItemName varchar(100),						
	8 Quantity int,						
	9 Price decimal(10,2)						
	10 );						
13	Create stored procedure						
14	DELIMITER //						
15 • ⊜	create procedure ManageInventory(						
16	IN action varchar(10),						
17	IN itemID int,						
18	IN itemName varchar(100),						
19	IN quantity int,						
20	IN price decimal(10,2)						
21	- )						
22 ⊖	BEGIN						
23 🖨	) IF action="add" then						
24	<pre>INSERT into Inventory(ItemName,Quantity,Price) Values (itemName, quantity, price);</pre>						
25	ELSEIF action="update" then						
26	UPDATE Inventory SET ItemName= itemName, Quantity = quantity, Price = price						
27	WHERE ItemName = itemName;						
28	ELSEIF action="retrieve" THEN						
29	SELECT * FROM Inventory WHERE ItemID = itemID;						
30	ELSE						
31	SELECT "Invalid Action";						
32	- END IF;						
33	- END//						
34	DELIMITER;						
	36 • Insert a value using the stored procedure	ItemID ItemName Quantity Price					
	<pre>37 CALL ManageInventory("add", 1, "Lapis", 5, 50.00);</pre>	1 Lapis 5 50.00					
	38 • SELECT * FROM Inventory;	NOLL NOLL NOLL NOLL					