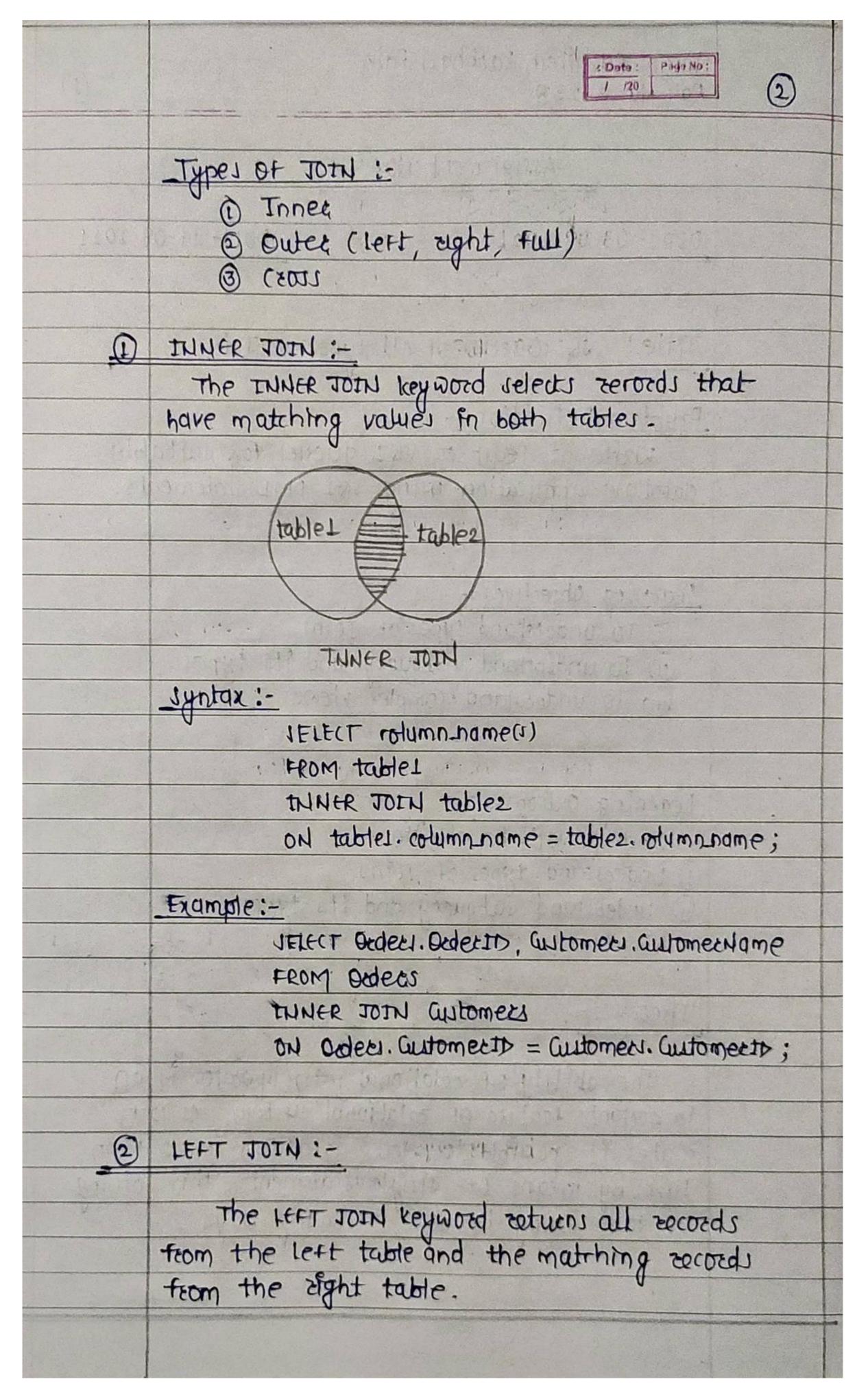
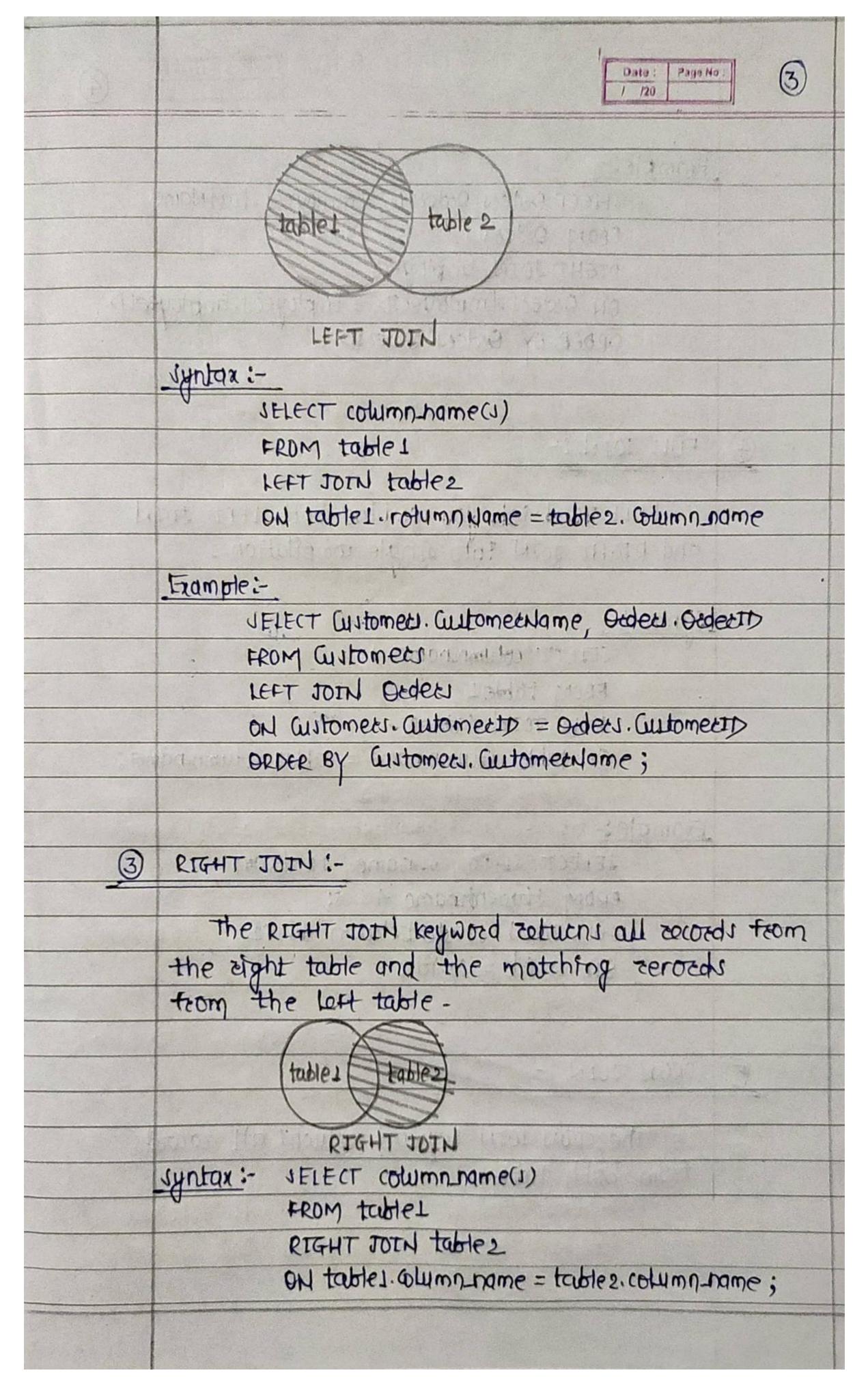
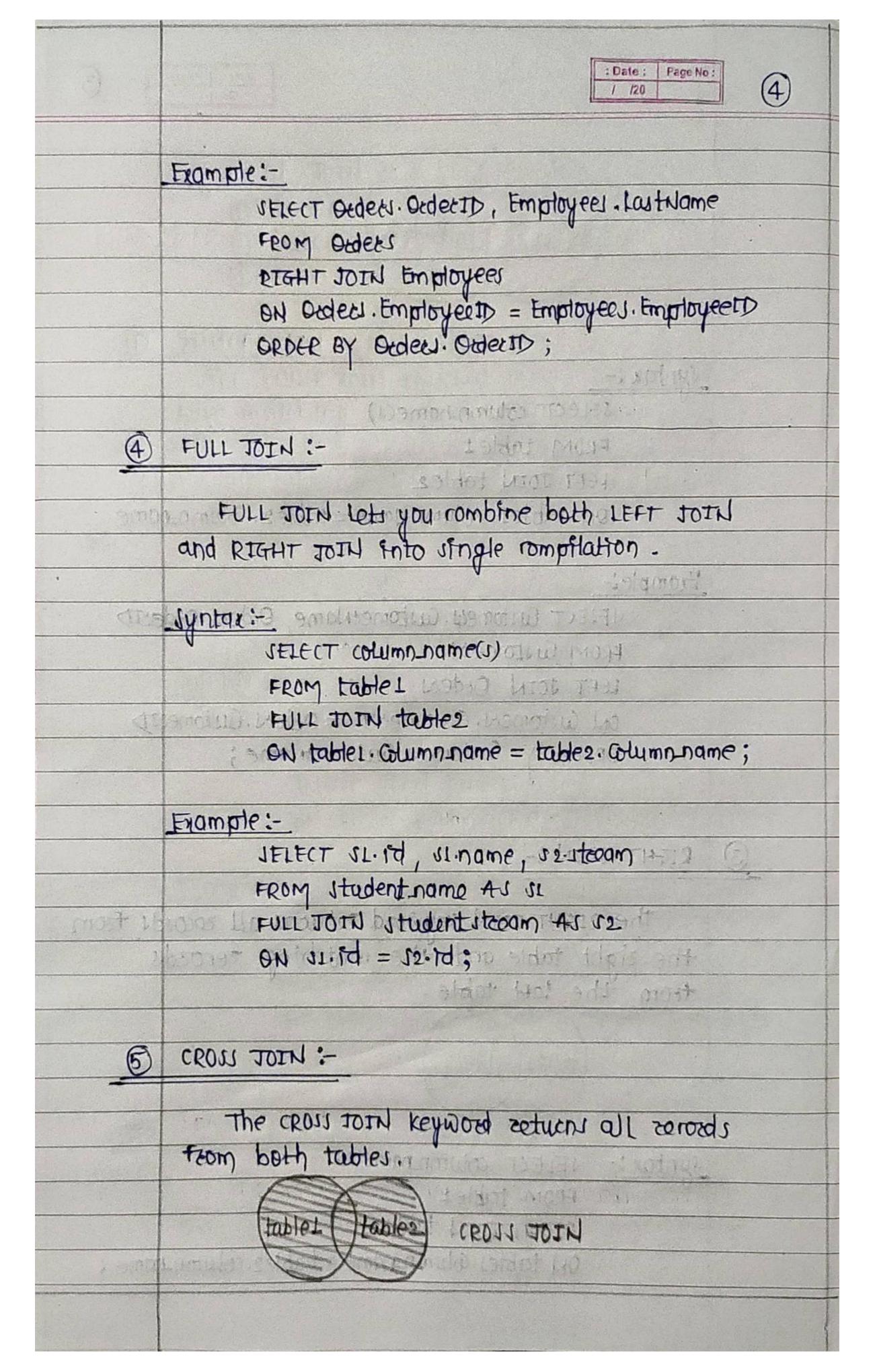
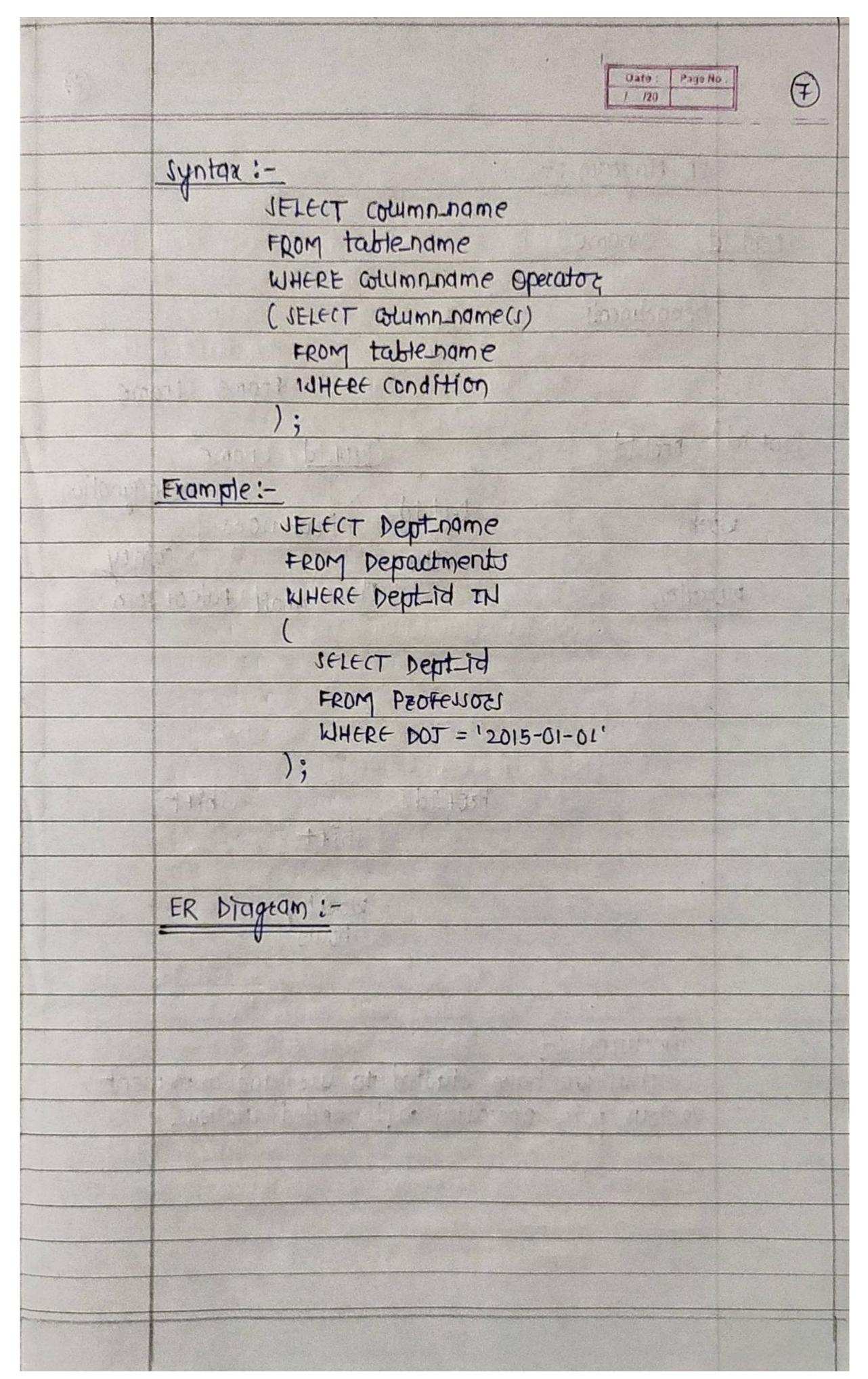
	Name: Rushikesh Kathhazi Palme :Date: Fage No: 1/20
	Assignment No. 3
	- Manifella do O
	DOP: 03-09-2021 DOI:-11-09-2021
	Title: - sql quectes of All types of Join.
-j:	The state of the s
	Problem Definition:
	With at least 10 sqr queter for suftable
	database application using son DML statements.
	Learning Objectives:
	To understand types of Johns.
	(ii) To undewtand subquery and Its types.
	(ii) To undecistand complex views.
	tional interpretation in this is the second
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	Leaching outromes:
3000	Students with be able to
	(i) Understand types of John Understand types and HJ types.
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4.744.323	The abflitty of relational join operator is an
	important feature of relational system. It join
	makes it possible to select data from more than
	talk by means of stoole itatement that informa
	talk by means of single statement. This joining of tables may be done in many ways.
	or rawles may be done my mays -

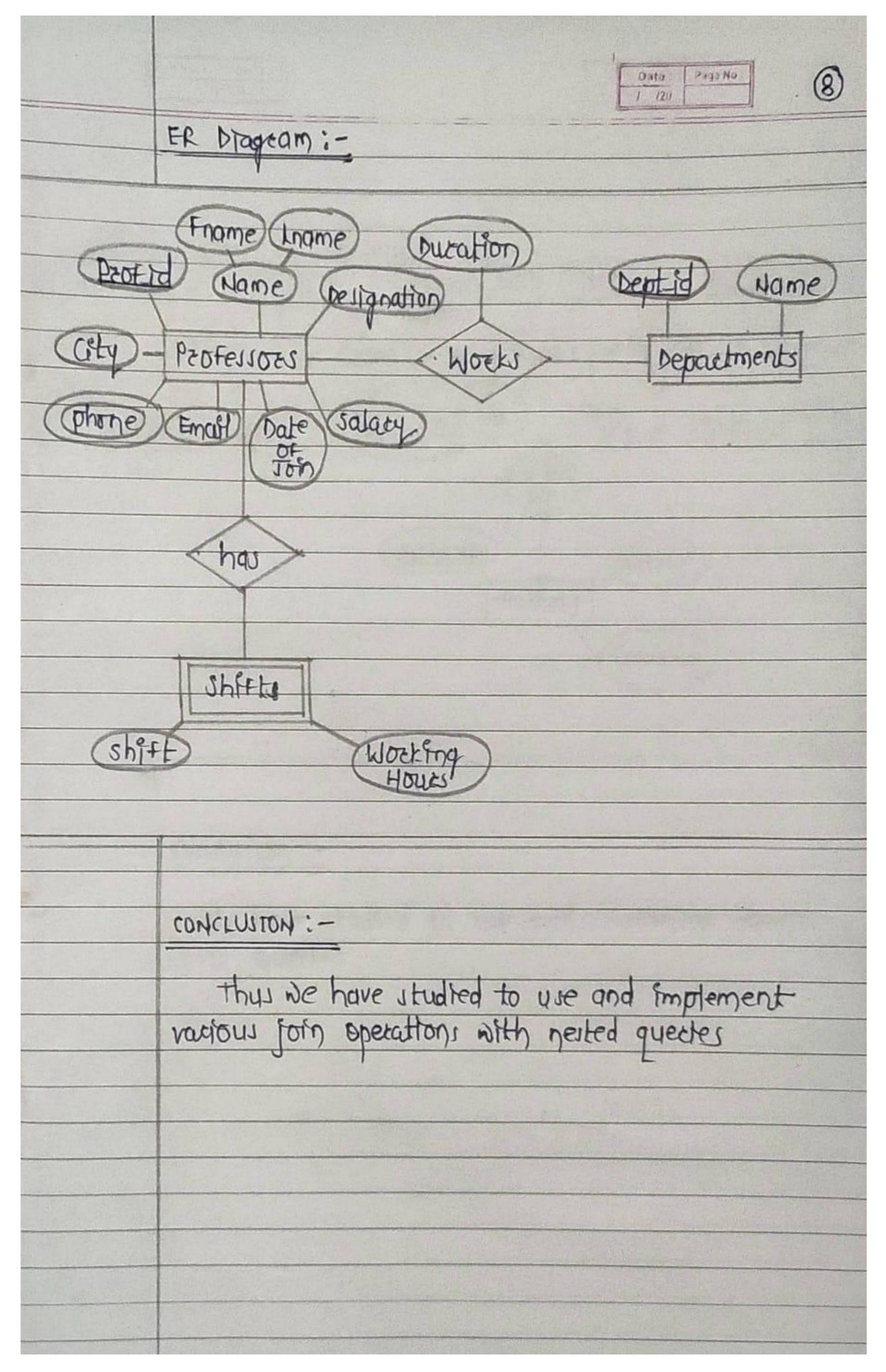






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## **OUTPUT:-**

## -- 1. Find the professor details and department details using NATURAL JOIN.

SELECT P.Prof\_id, Prof\_fname, Prof\_lname, D.Dept\_id, D.Dept\_name, P.designation FROM Professors P
NATURAL JOIN Departments D;

Prof_id	Prof_fname	Prof_lname	Dept_id	Dept_name	designation
101	TONY	STARK	10	Computer	Assistant Professor
102	TIM	ADOLF	10	Computer	Associate Professor
103	KIM	JARVIS	20	IT	Professor
104	SAM	MILES	30	E&TC	Associate Professor
105	KEVIN	HILL	50	Civil	Assistant Professor
106	CONNIE	SMITH	40	Mechanical	Professor
107	ALFRED	KINSLEY	20	IT	Professor
108	PAUL	TIMOTHY	10	Computer	Associate Professor
109	JOHN	ASGHAR	30	E&TC	Assistant Professor
110	ROSE	SUMMERS	50	Civil	Associate Professor

## -- 2. Find the prof\_id, prof\_name and shift. (INNER JOIN)

SELECT P.Prof\_id, Prof\_fname, Prof\_Iname, S.Shift FROM Professors P INNER JOIN Shift S ON P.Prof\_id = S.Prof\_id;

+   Prof_id	Prof_fname	Prof_lname	Shift
101   102   103   104   105   106	TONY TIM KIM SAM KEVIN CONNIE	STARK ADOLF JARVIS MILES HILL SMITH	Morning     Evening     Morning     Morning     Evening     Morning
107 108 109 110	ALFRED PAUL JOHN ROSE	KINSLEY TIMOTHY ASGHAR SUMMERS	Evening     Morning     Morning     Evening

-- 3. List all the department details and the corresponding names of professors -- in the same department.(left outer join)

SELECT D.Dept\_name, P.Prof\_fname, P.Prof\_Iname FROM Departments D LEFT JOIN Professors P ON D.Dept\_id = P.Dept\_id;

+   Dept_name +	Prof_fname	++   Prof_lname
Computer	TONY	STARK
Computer	TIM	ADOLF
Computer	PAUL	TIMOTHY
IT	KIM	JARVIS
IT	ALFRED	KINSLEY
E&TC	SAM	MILES
E&TC	JOHN	ASGHAR
Mechanical	CONNIE	SMITH
Civil	KEVIN	HILL
Civil	ROSE	SUMMERS
Electrical	NULL	NULL
+	·	++

- -- 4. List all the professors and the corresponding names of department. -
- (right outer join)

SELECT P.Prof\_fname, P.Prof\_Iname, D.Dept\_name FROM Professors P RIGHT JOIN Departments D ON P.Dept\_id = D.Dept\_id;

Prof_fname	Prof_lname	Dept_name
TONY	STARK	Computer
TIM	ADOLF	Computer
PAUL	TIMOTHY	Computer
KIM	JARVIS	IT
ALFRED	KINSLEY	i it
SAM	MILES	E&TC
JOHN	ASGHAR	E&TC
CONNIE	SMITH	Mechanical
KEVIN	HILL	Civil
ROSE	SUMMERS	Civil
NULL	NULL	Electrical

-- 5. Display professor name, dept\_name, shift, salary where prof\_id = 101 -- (multitable join)

SELECT P.Prof\_id, P.Prof\_fname, P.Prof\_lname, D.Dept\_name, S.Shift, P.salary FROM Professors P JOIN Departments D ON P.prof\_id = 101 AND D.Dept\_id = P.Dept\_id JOIN Shift S ON S.prof\_id = 101;

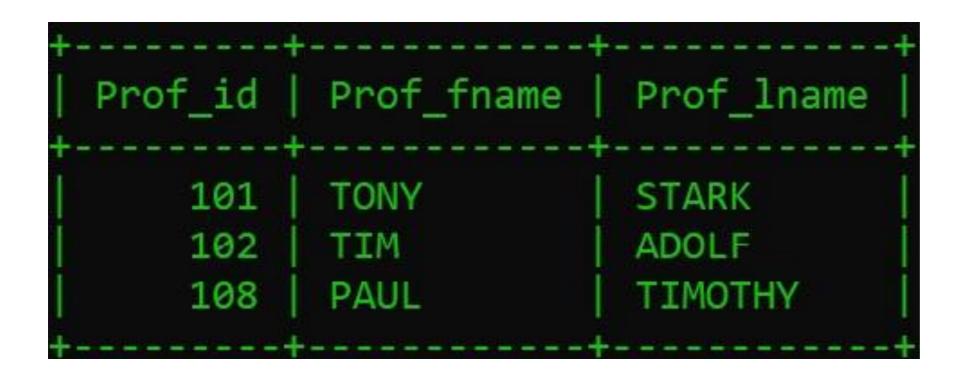
- -- 6. list the total number of professor in each department.
- -- (count and any join, groupby)

SELECT D.Dept\_name, COUNT(P.Prof\_id) AS noOfProf FROM (Professors P INNER JOIN Departments D ON P.Dept\_id = D.Dept\_id) GROUP BY Dept\_name;

noOfProf
3
2
2
1
2

- -- 7. List the prof\_id associated department and the dept\_name having name -
- 'computer' (subquery)

SELECT Prof\_id, Prof\_fname, Prof\_Iname FROM
Professors WHERE Dept\_id = (SELECT Dept\_id FROM
Departments WHERE Dept\_name = 'Computer');



- -- 8. Find the names of all departments where the professors joined in year 2015
- -- (or date of joining is 1-1-2015).(subquery)

SELECT DISTINCT Dept\_name
FROM Departments NATURAL
JOIN professors WHERE
YEAR(Date\_of\_join) = '2015';

