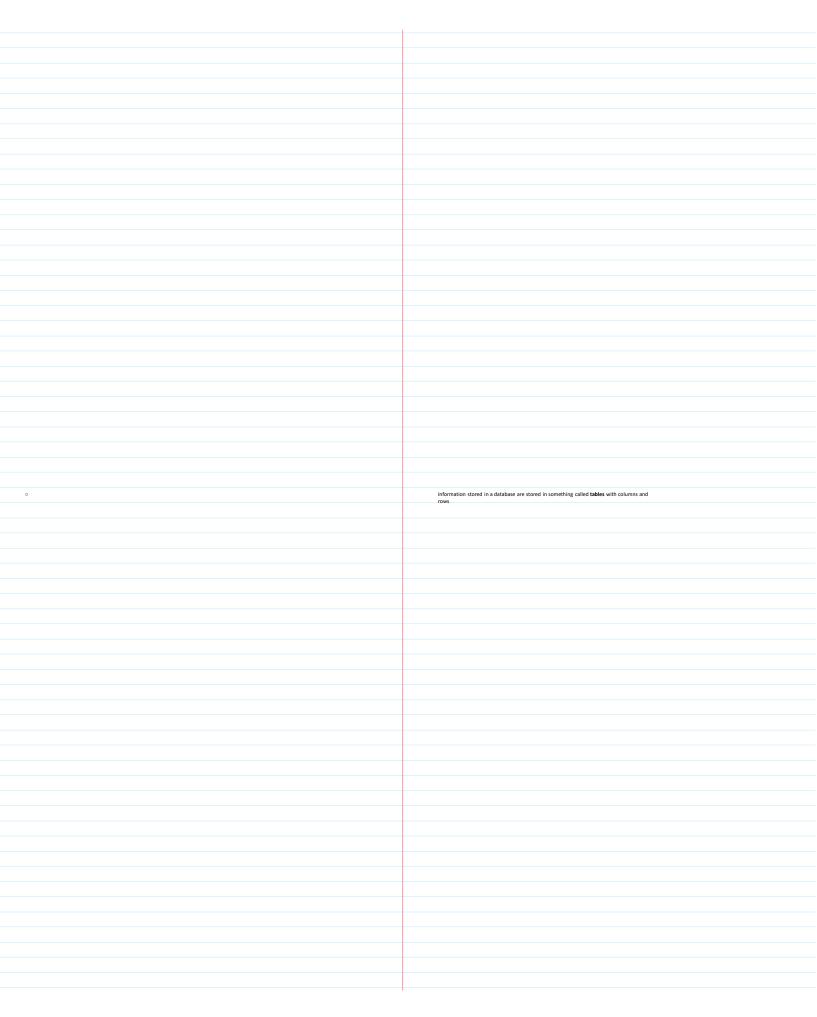
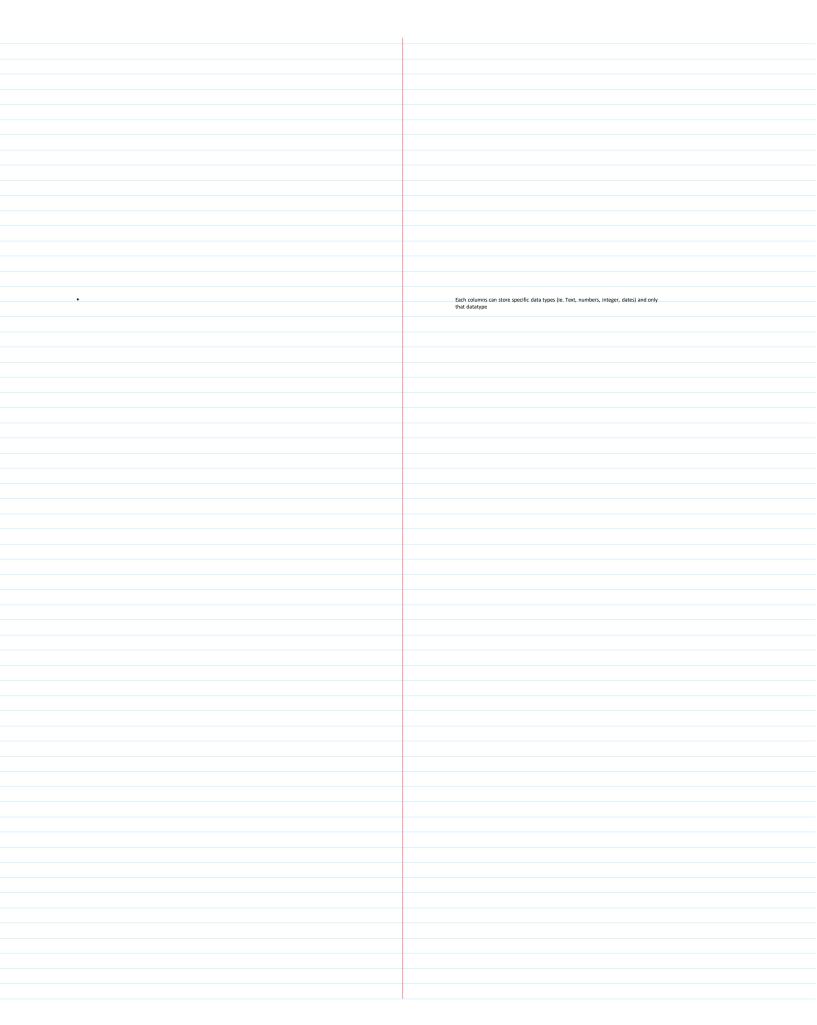
The Complete Oracle SQL Certification Course
Course Link: The Complete Oracle SQL Certification Course
SECTION 1: Database Basics
Thursday, May 28, 2020 12.25 AM

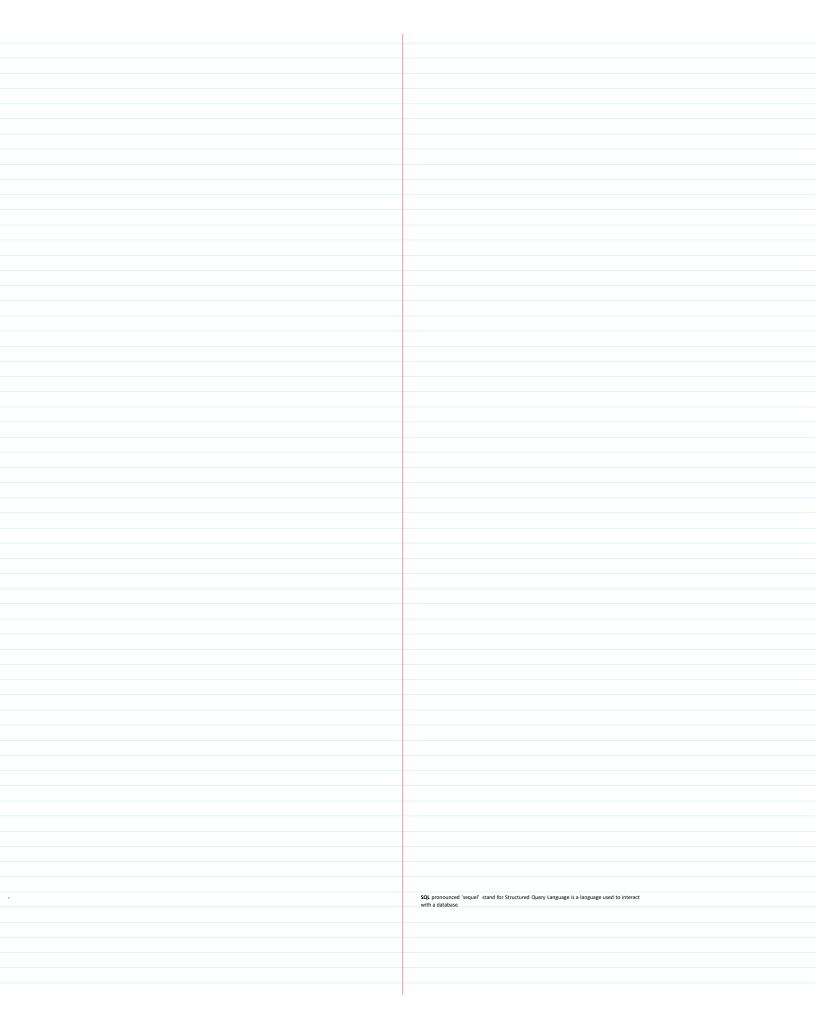
1.	Oracle Database Introduction & Basics of Tables
	A Database is where you store data.
	A Database is where you store data. Its symbol is depicted as follows:

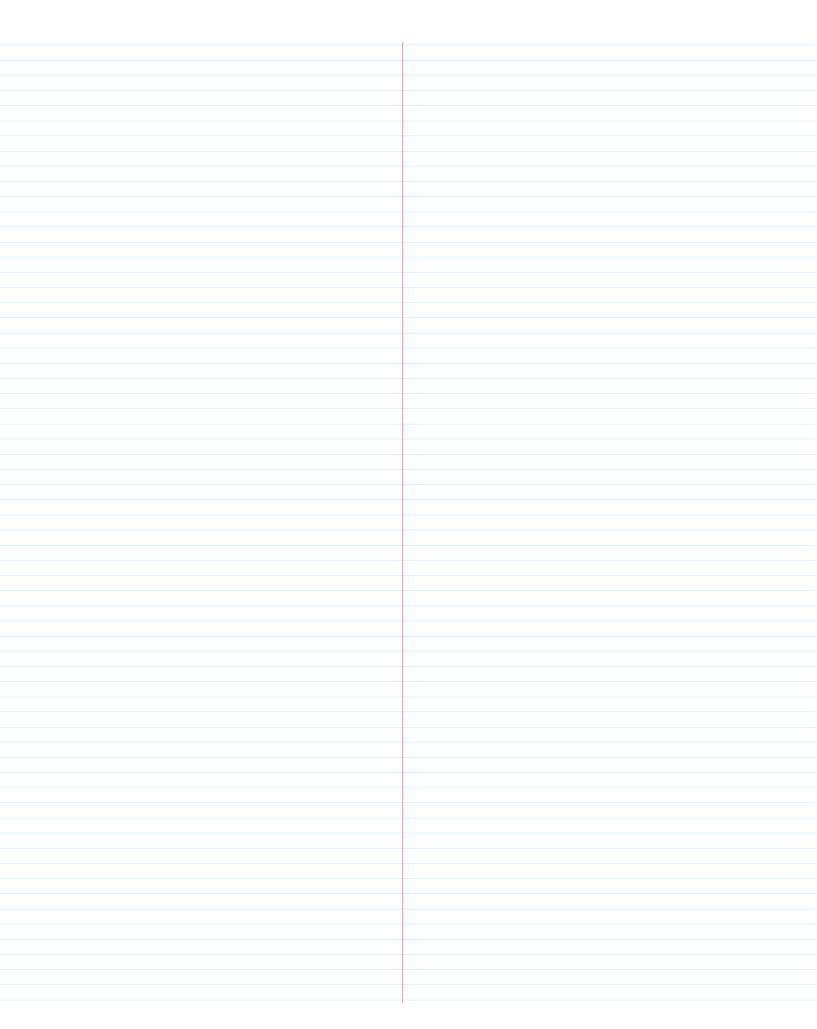


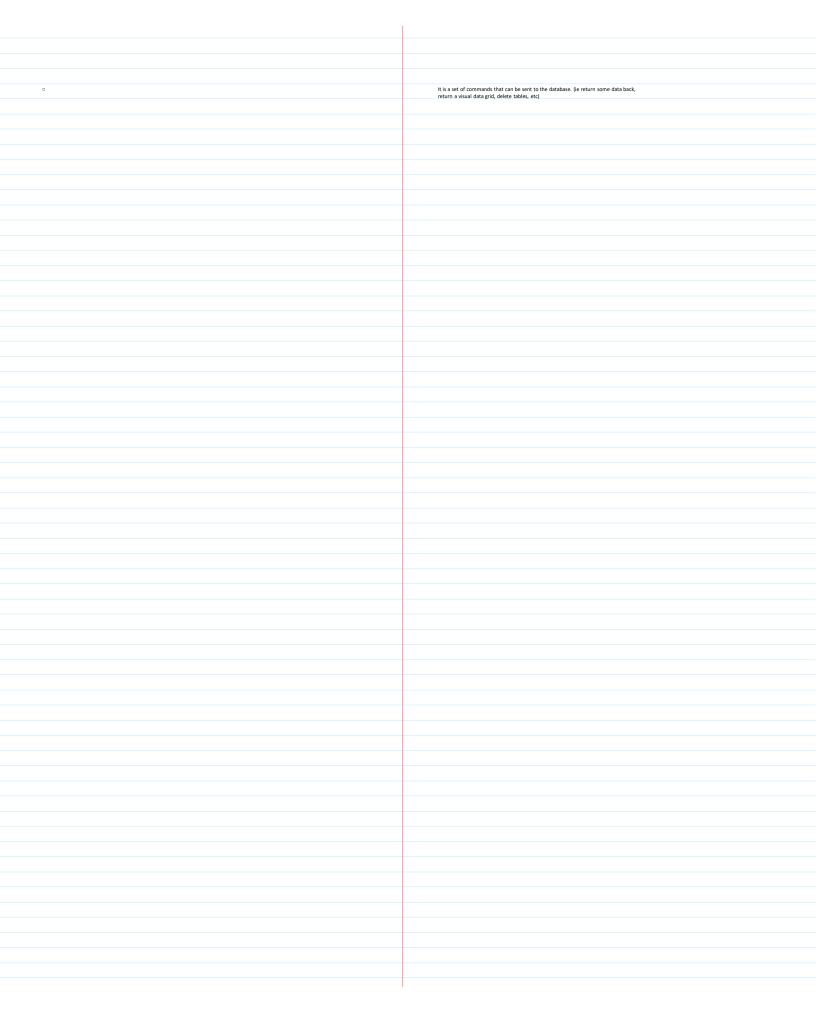
0	Columns: store attributes and numbered starting in the first element.
·	Columns. Store actionates and numbered stanting in the first element.

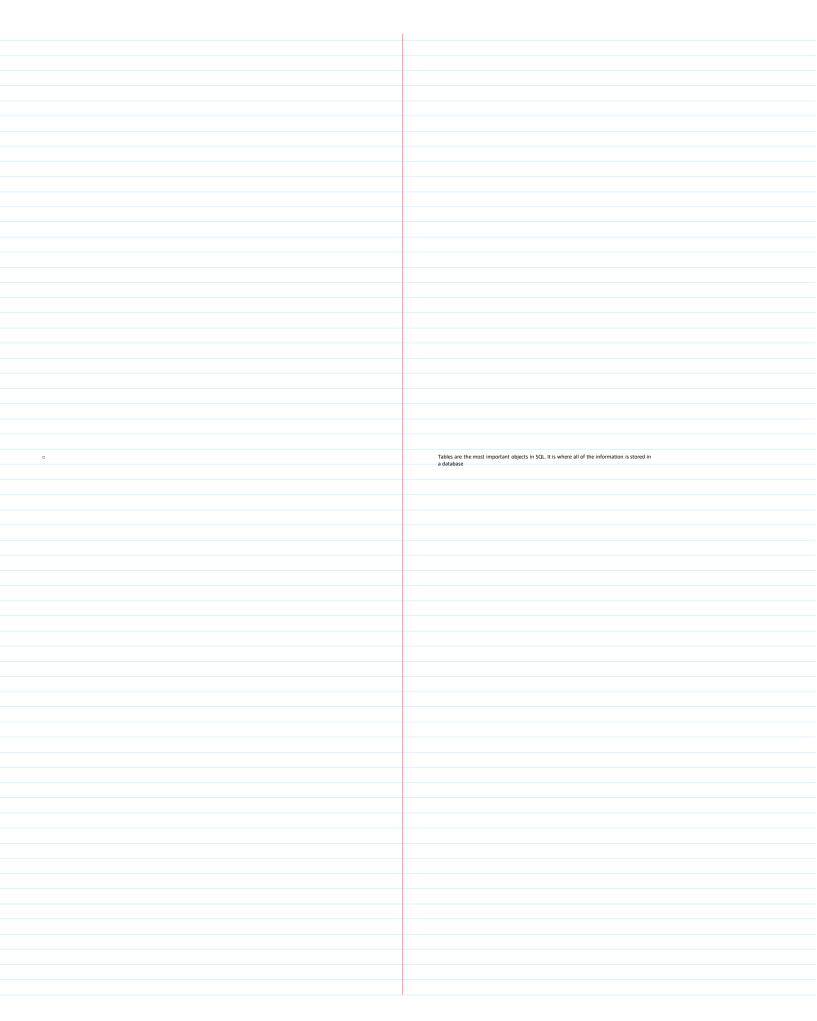


٥	Rows: Also known as records. The records start at the second row because the first row contains the columns attribute label
	contains the columns attribute label

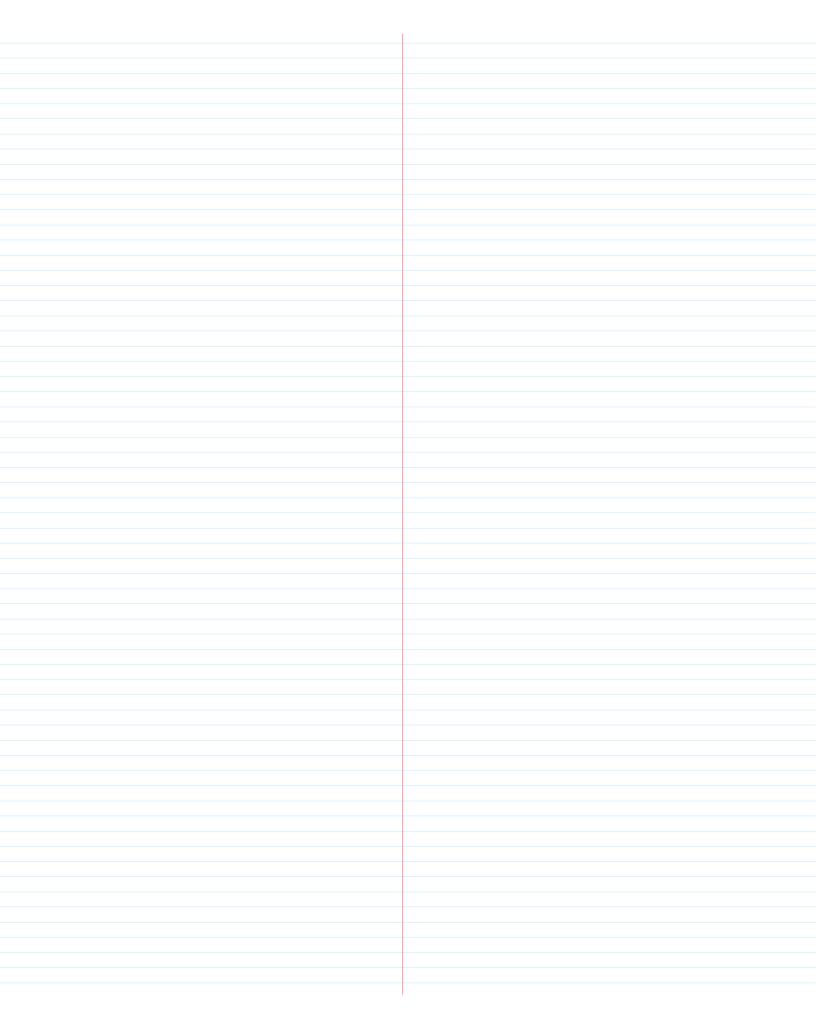






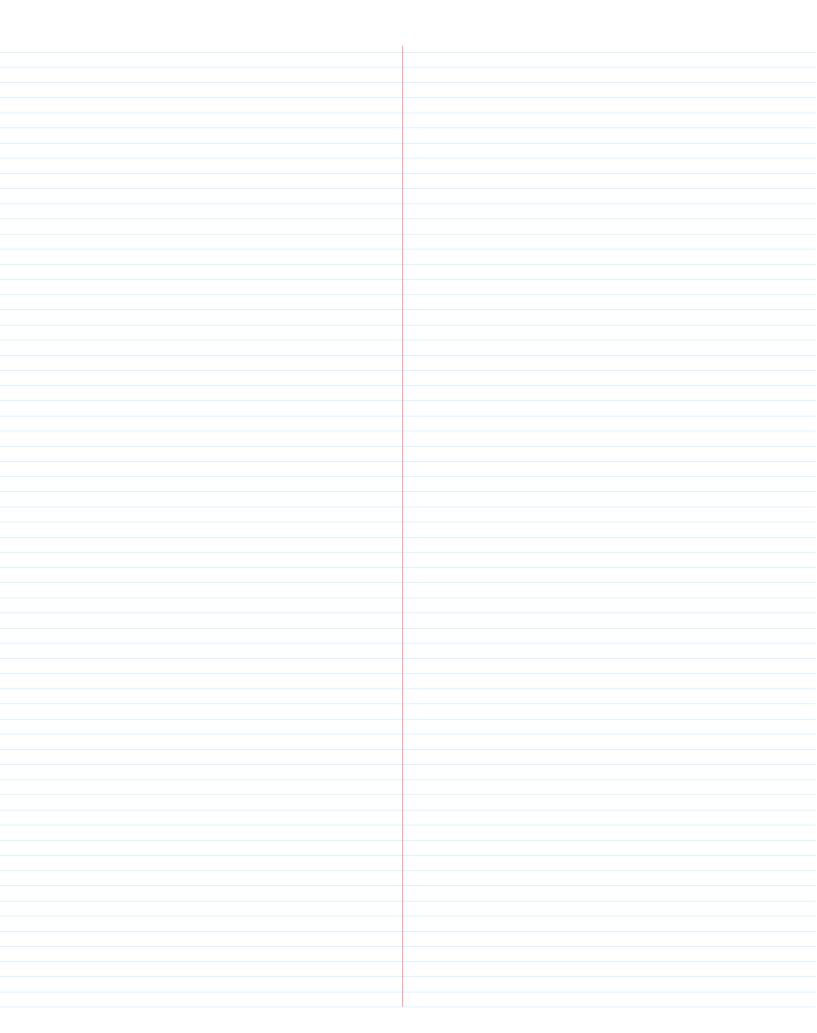


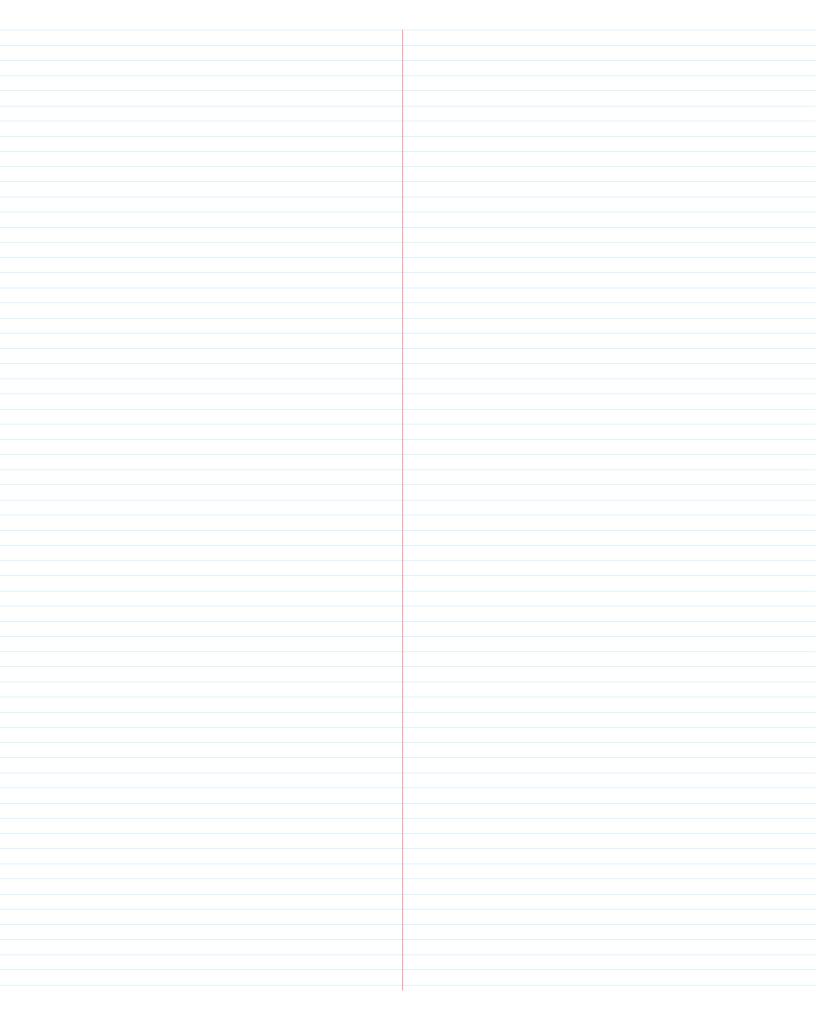
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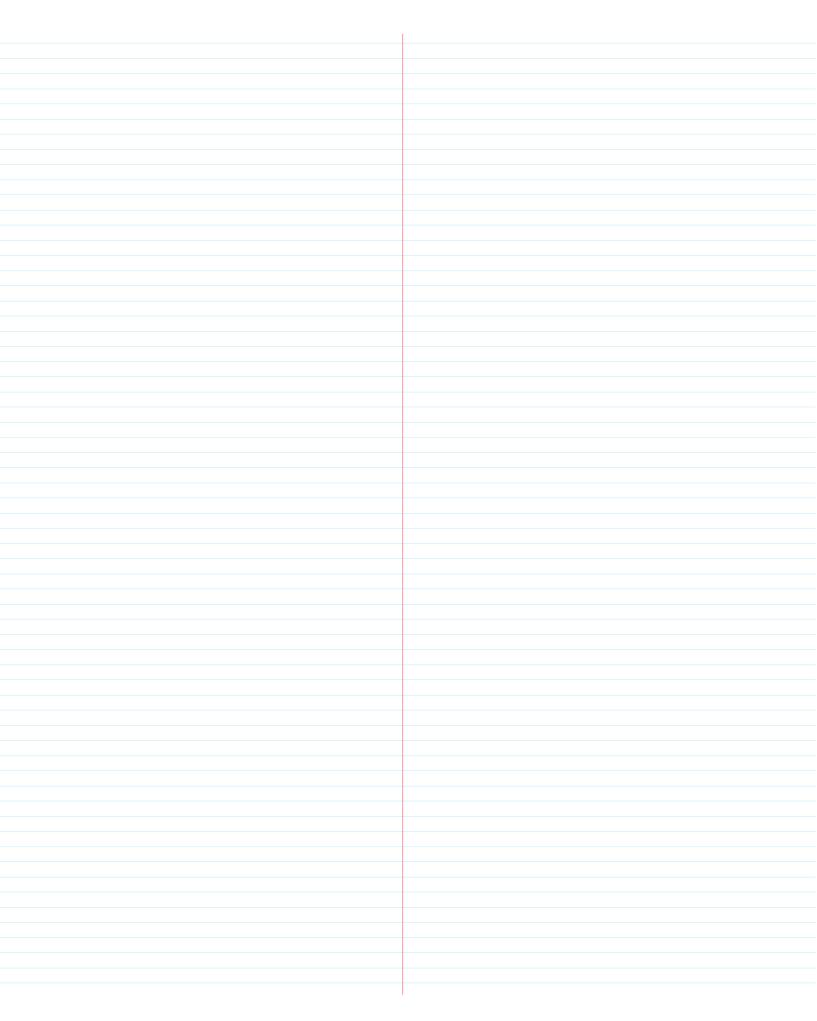


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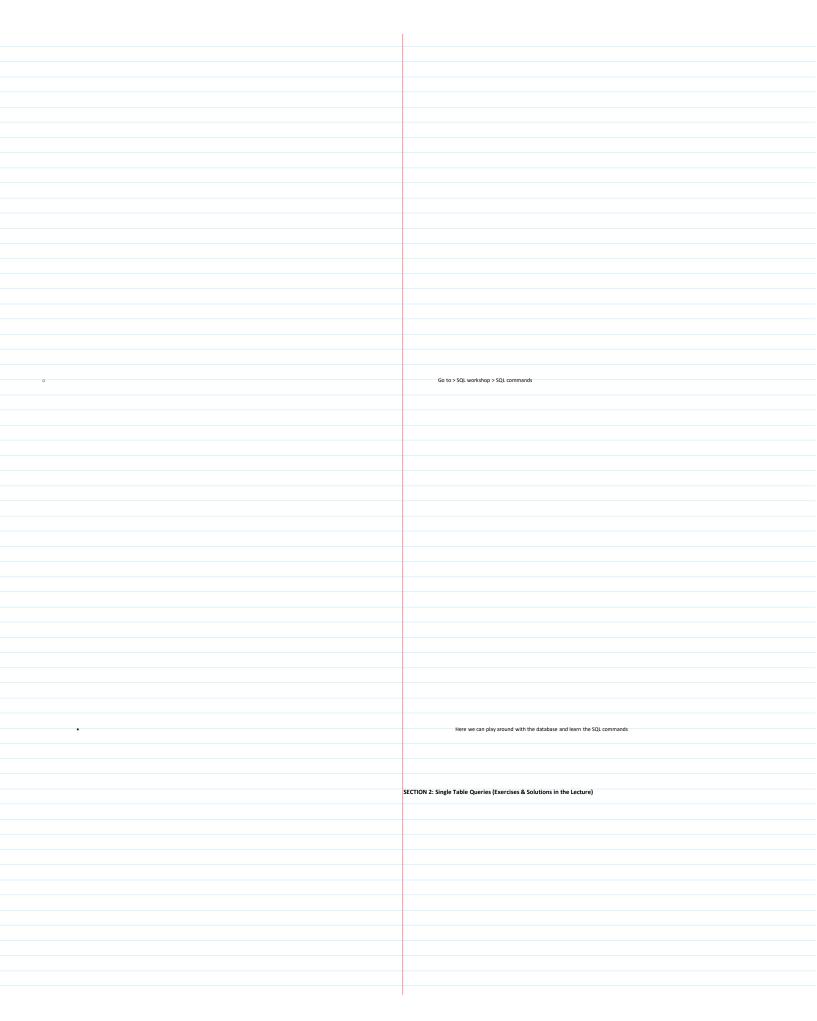
٥	The server could have many persistent disk
0	When someone usually talk about Oracle they are talking about the representation of the
	When someone usually talk about Oracle they are talking about the representation of the entire Oracle infrastructure-a combination of the software and the hardware
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	Oracie usually provide companies with the software the hardware including the Oracie database software.
	database software
0	database software
0	Oracle usually provide companies with the software the hardware including the Oracle database software **For this course we are going to be using the Oracle Cloud Installation. Which is a cloud instance of the database. We can access this using the application called Apex which is a website where you can get access to the database and you can type sql commands right in the browser and it will make changes to the database
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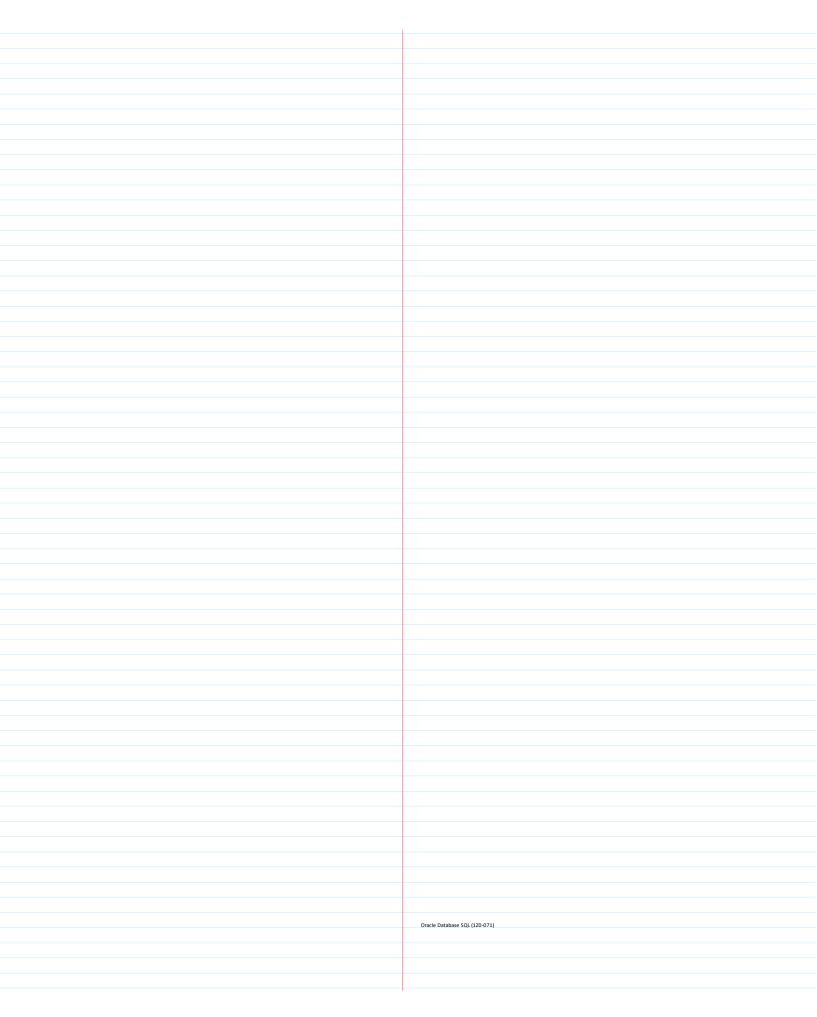
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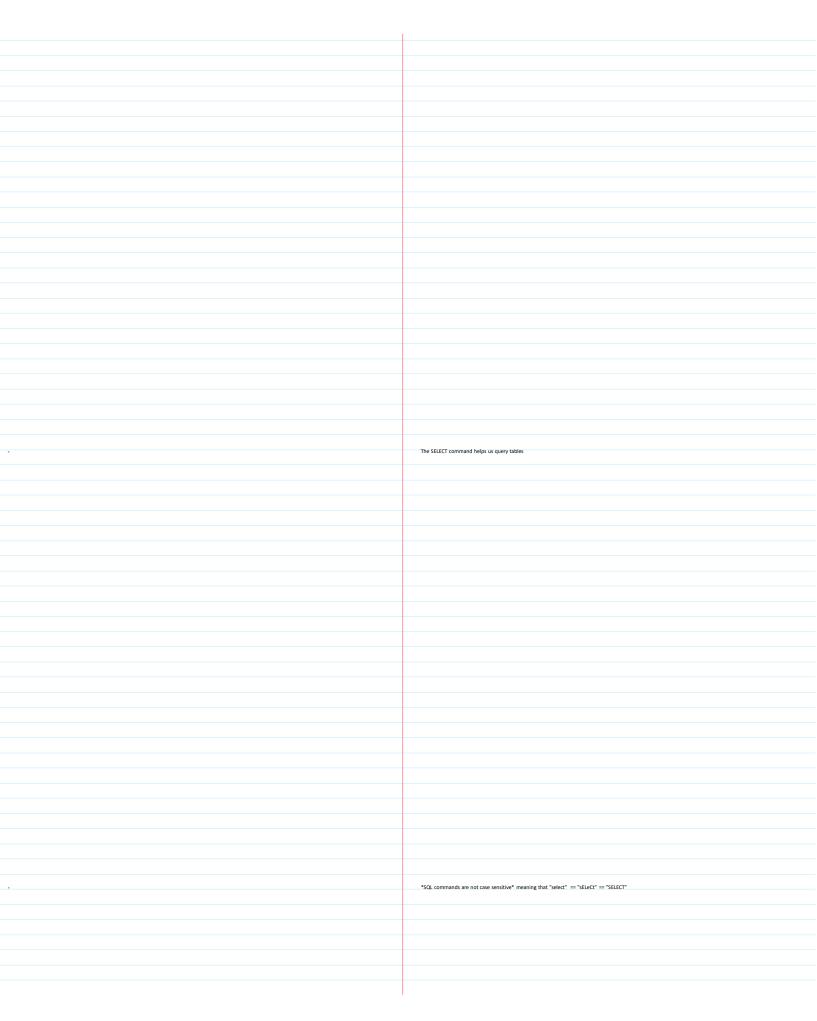
4.	Oracle Exams and Certification Information
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4.	Oracle Exams and Certification Information

In this course we use Oracle 12c installed on the cloud. The SQL Language you'll be practicing is used in Oracle database versions 11G and 12C.

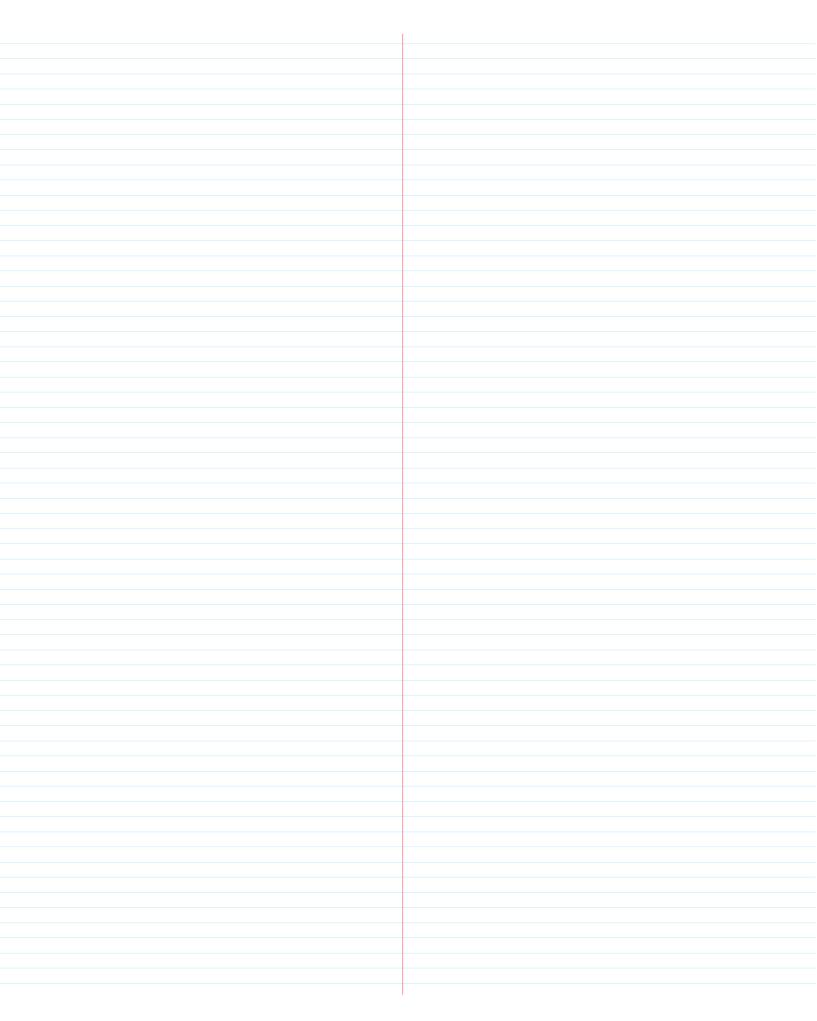
Once you have completed this course in addition to all of the assignments, you'll be ready to take the below exam!
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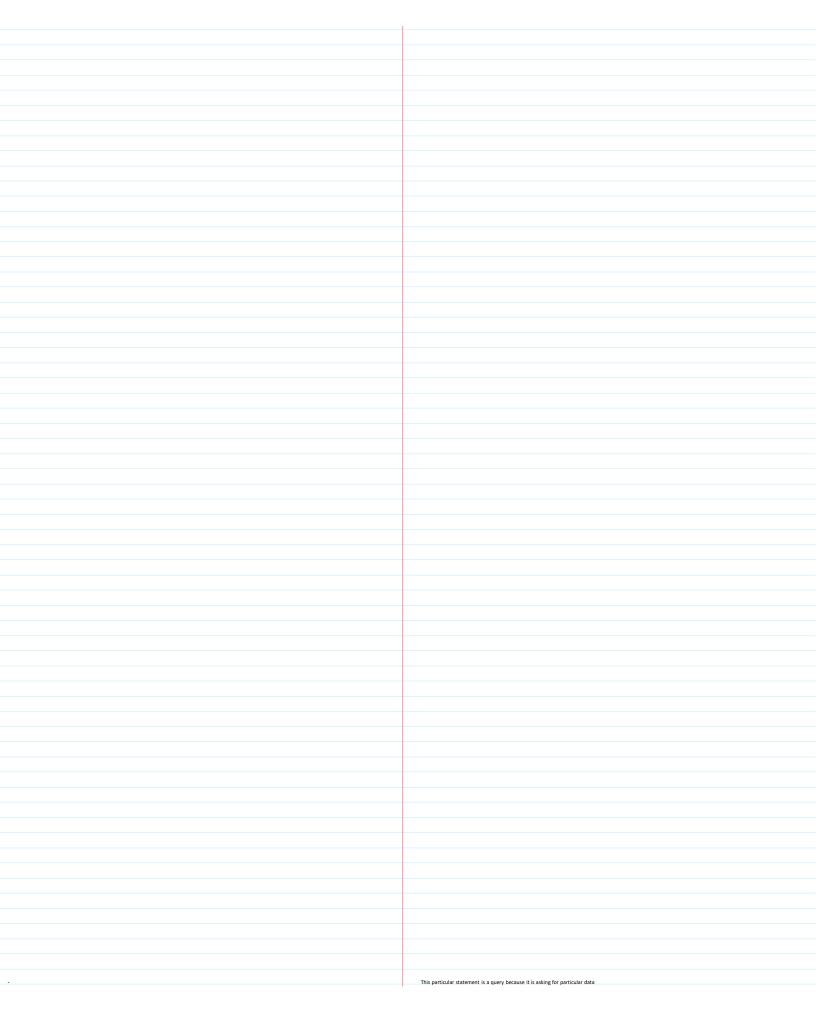


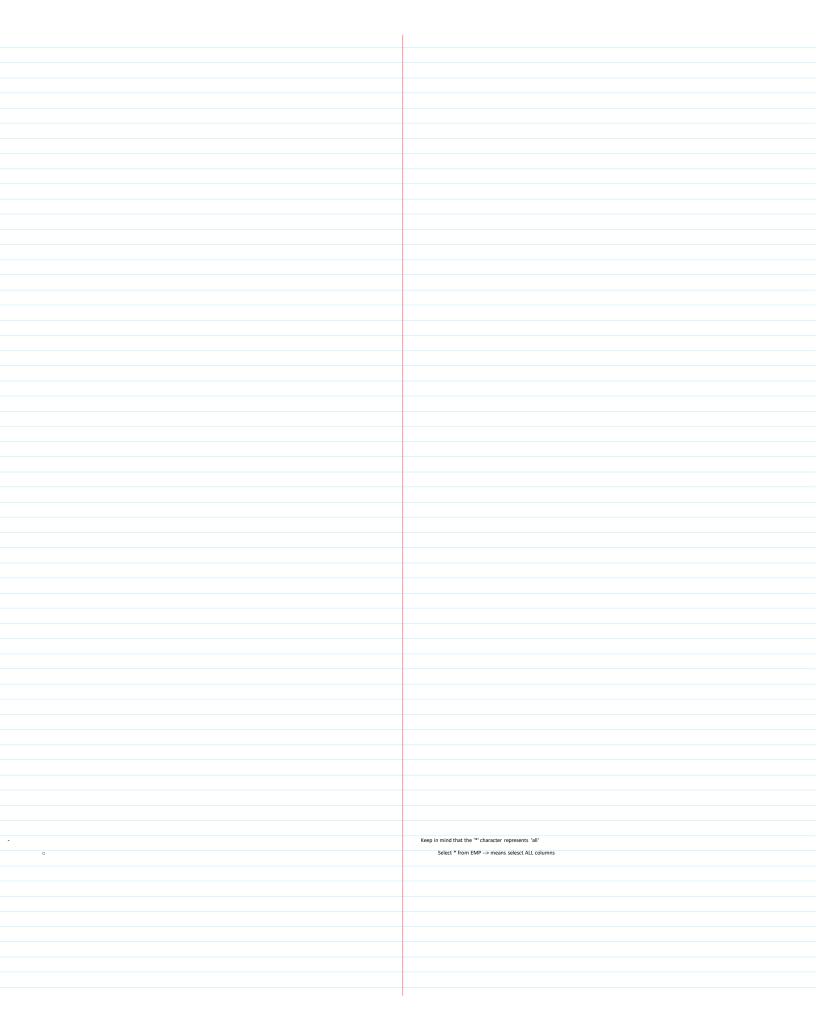
5.	Retrieving Data Using the SELECT Clause
	In this lesson we are going to look at how to view data in a database
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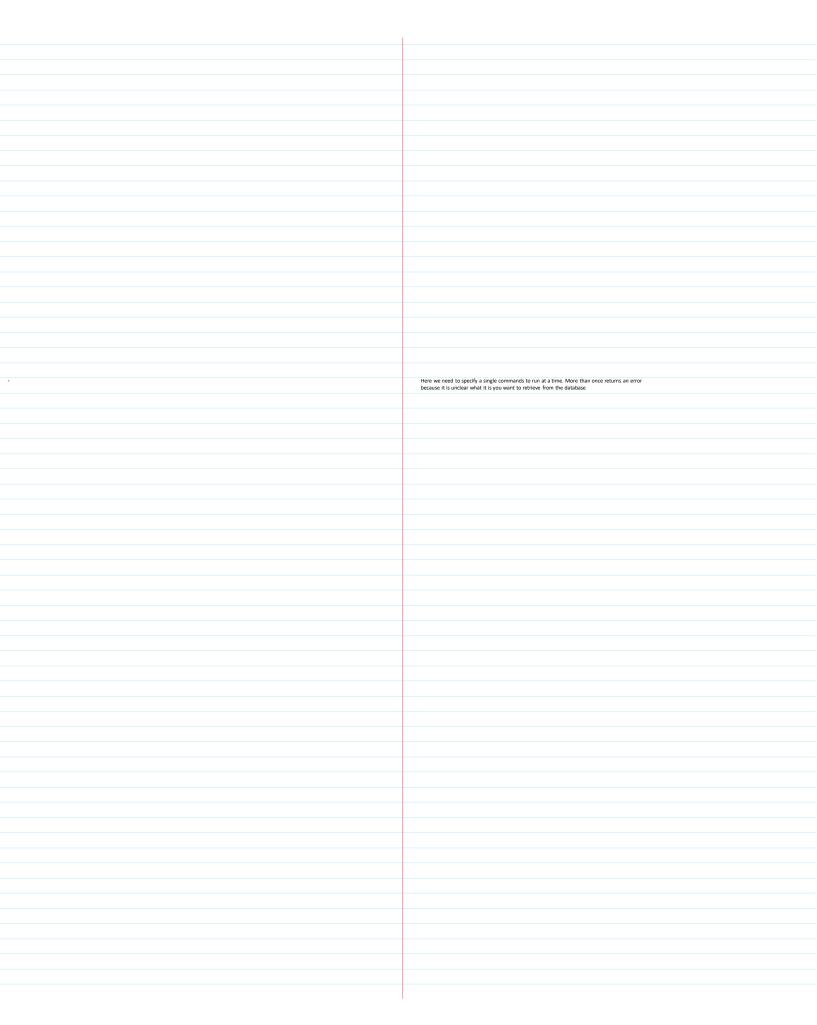


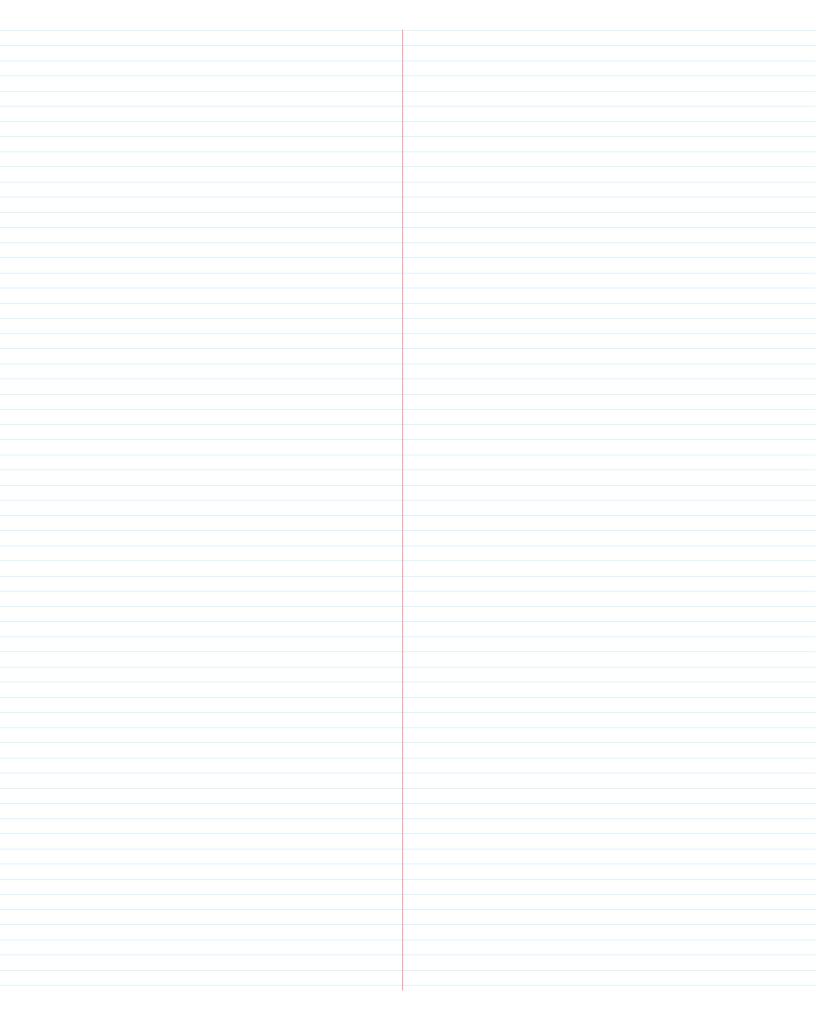
SQL Statements: made up of keywords that create expression. The select keyword works with input arguments such as the column attribute and the FROM key word with an input argument of the table name.
algorient of the table name

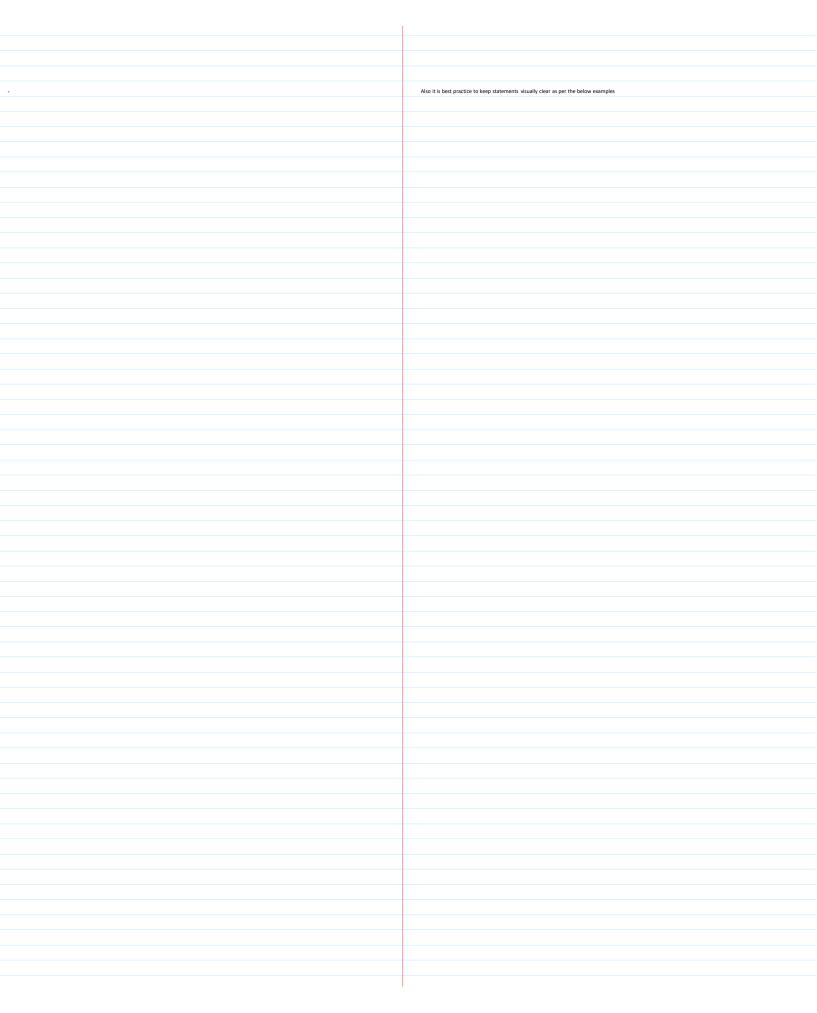




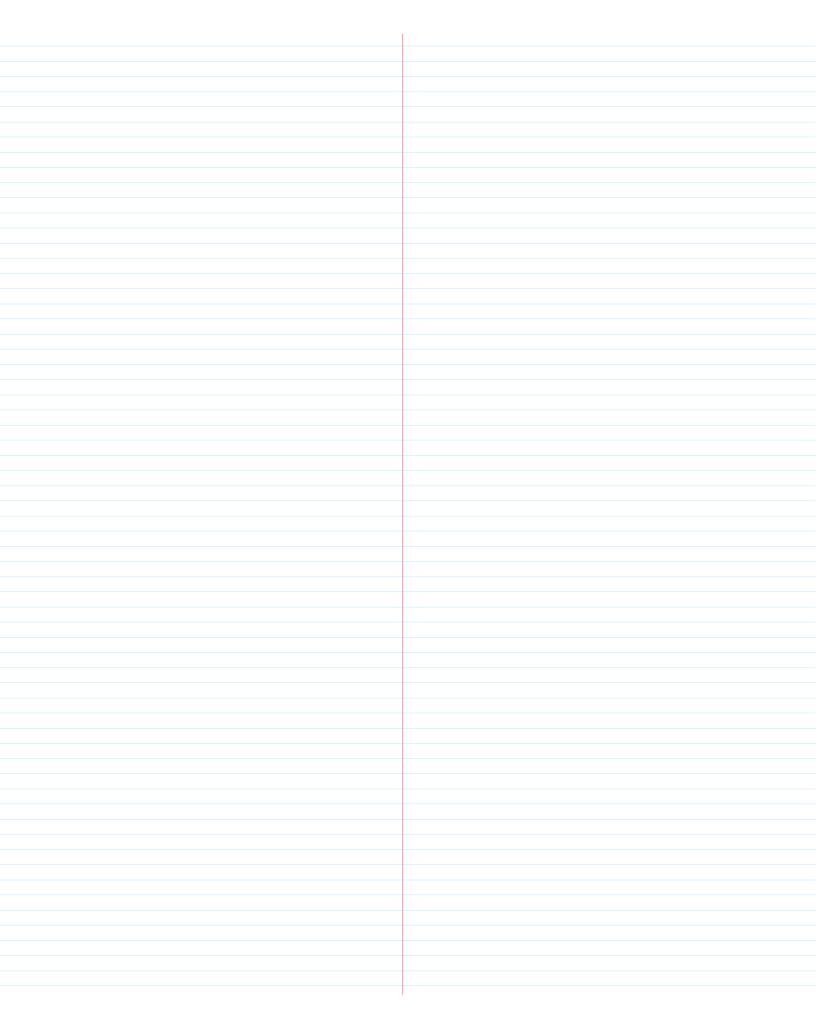


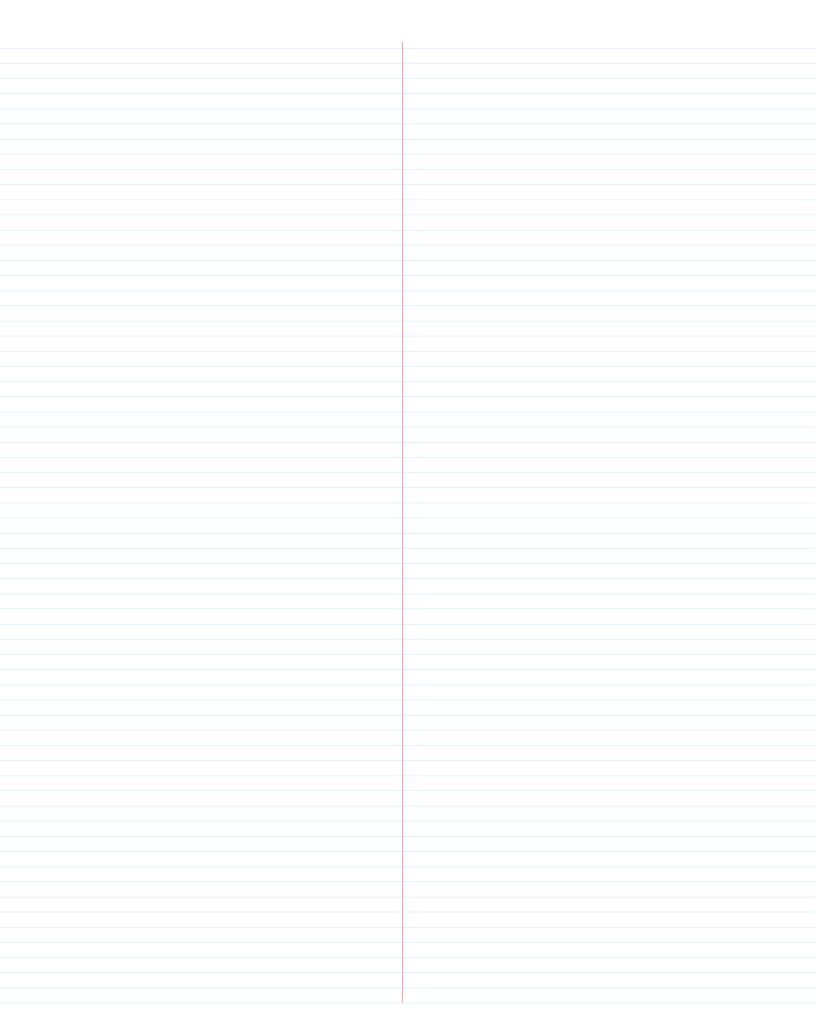




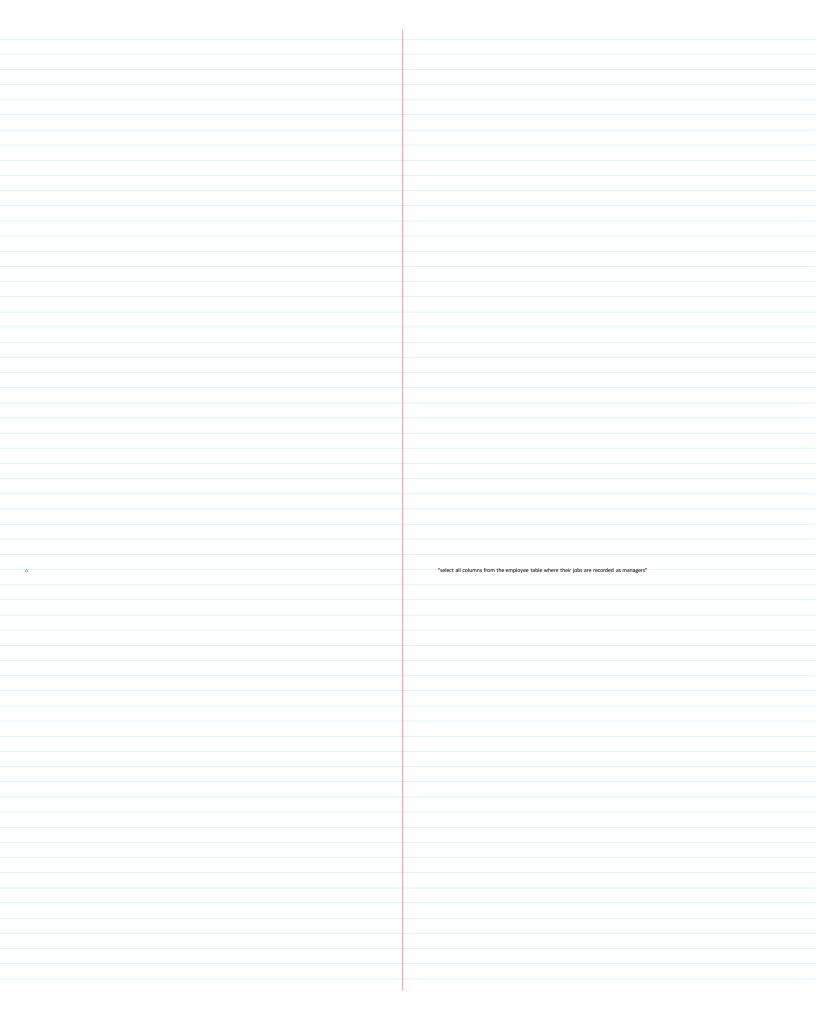


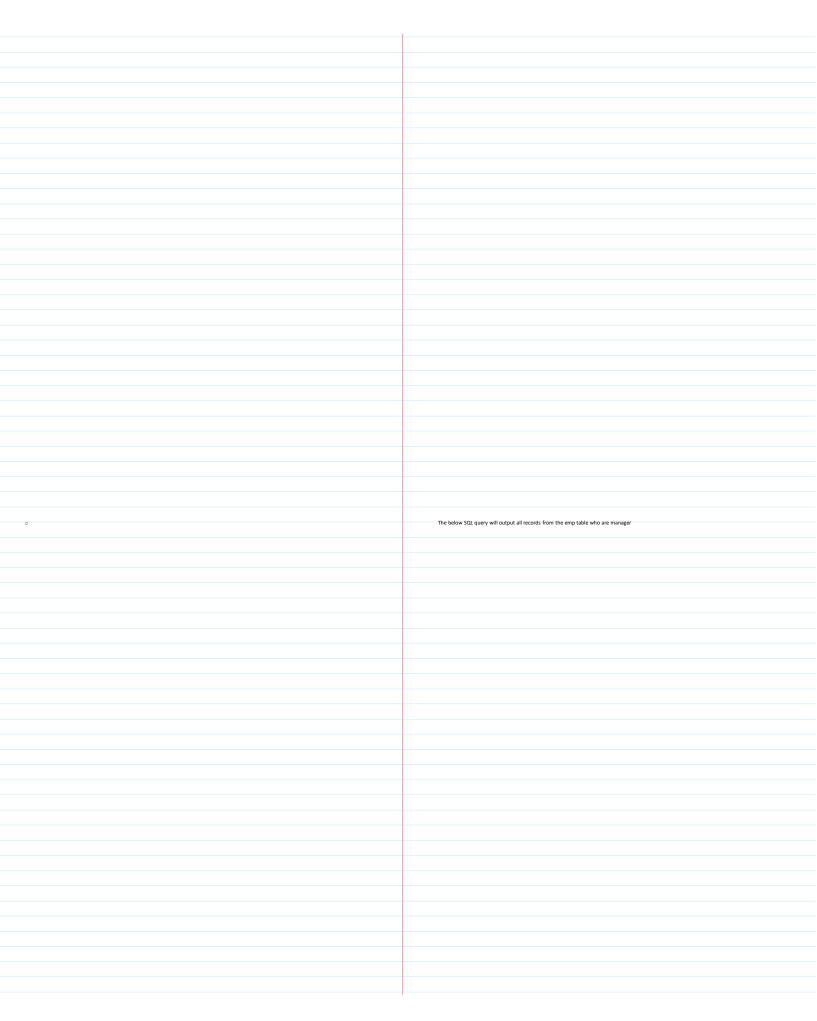
Notice that listing job description lets say from the employee table will output rows with
multiplied description. This is completely normal, because there are employees with the same job title. BUT lets say we want the distinct output (no repetitions). Then we can use the DISTINCT Newyord.



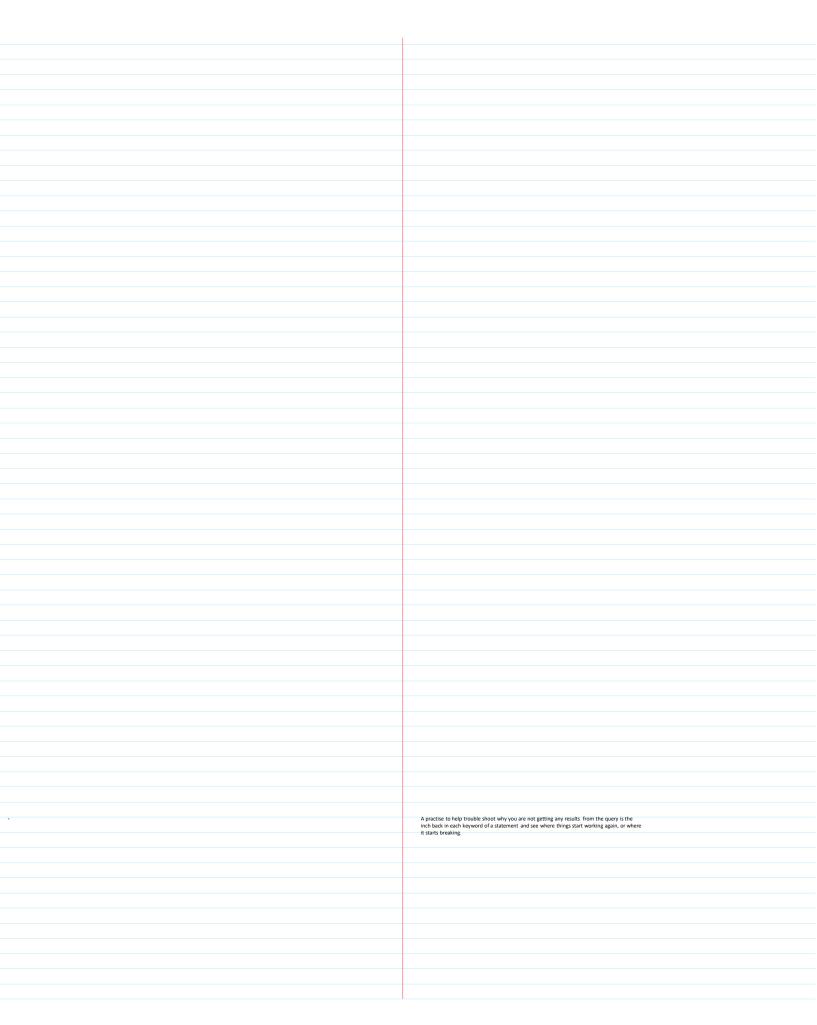


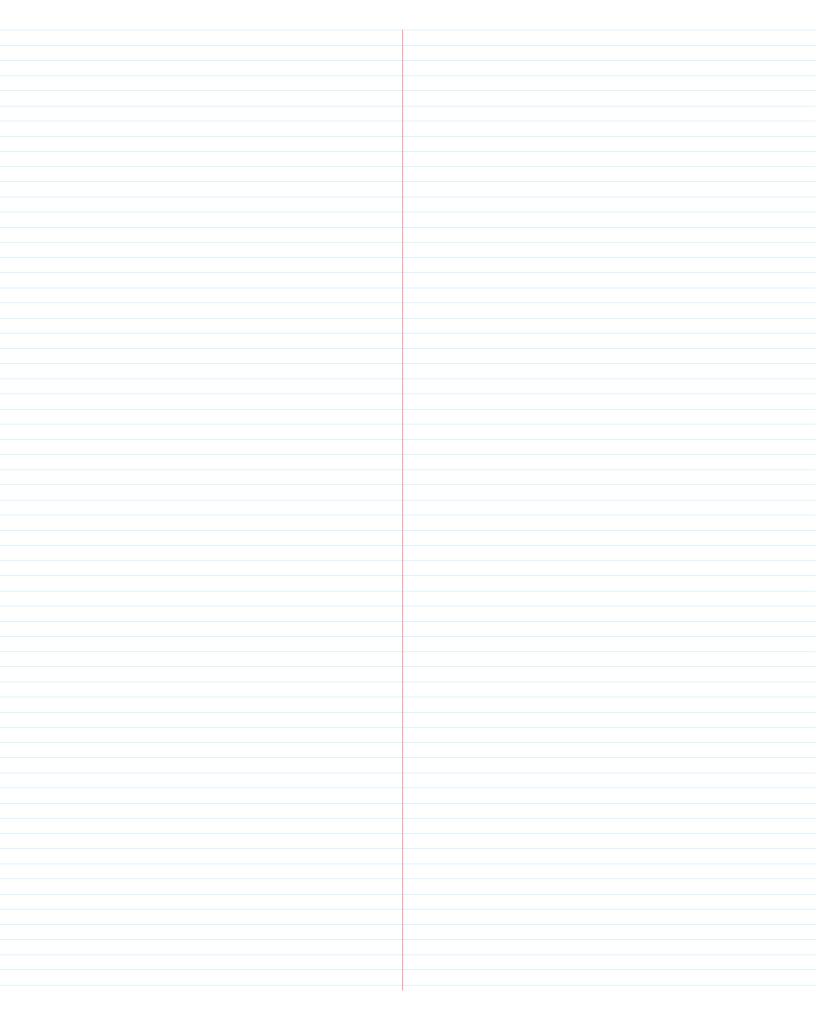
•	It will return fewer records obviously
6.	Using the WHERE clause
	
	The WHERE keyword help us further specify our query
•	
•	

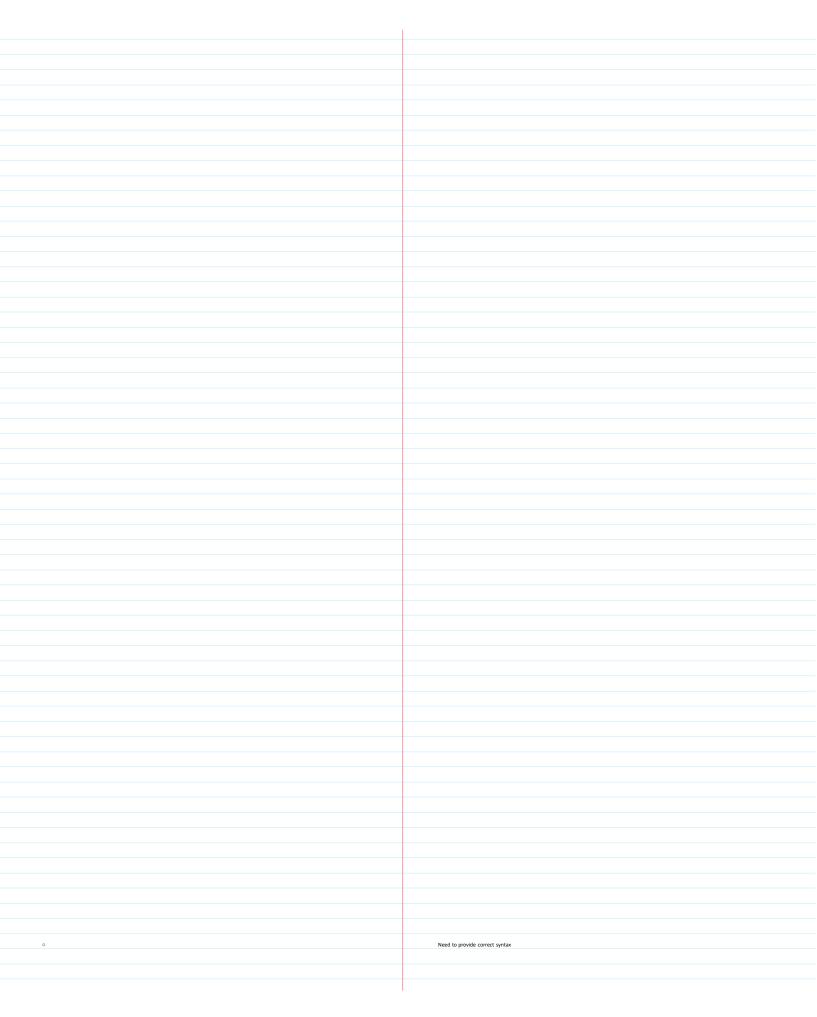


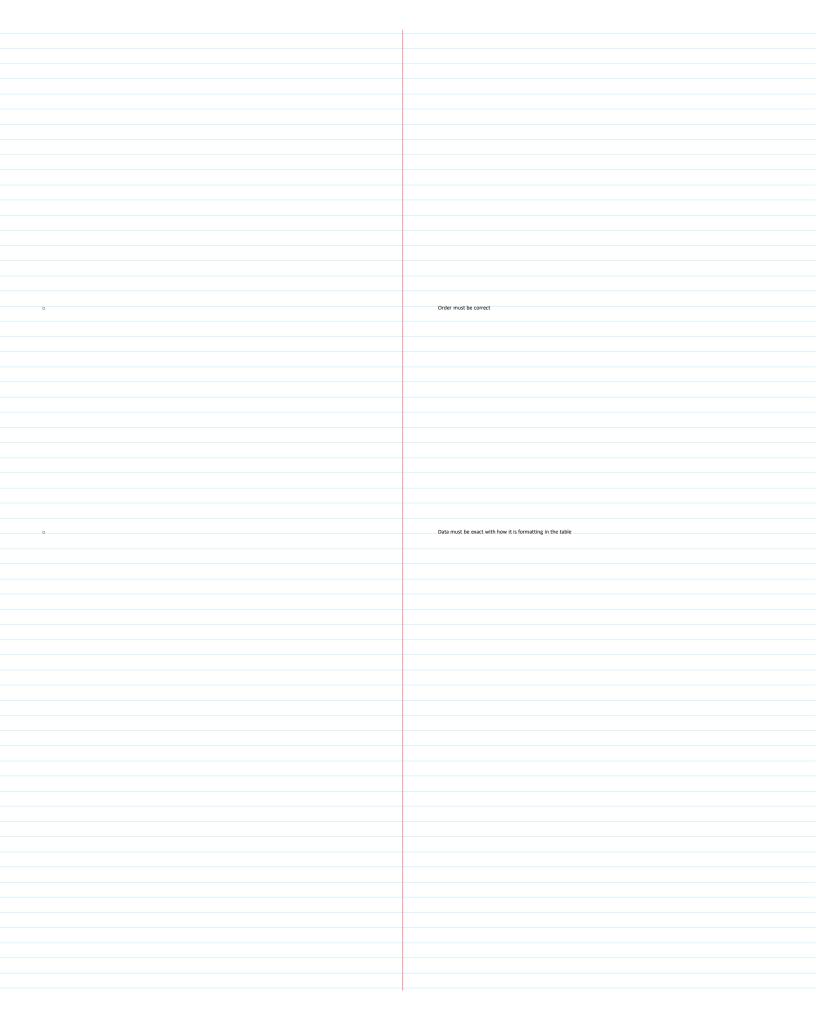




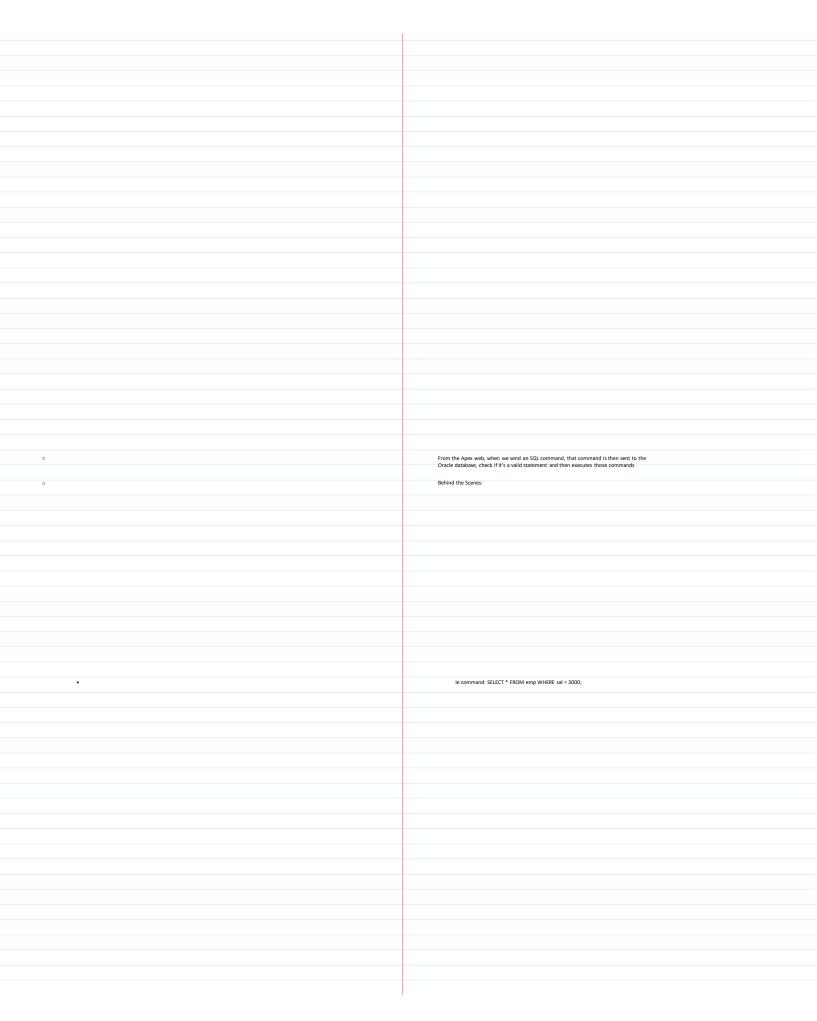




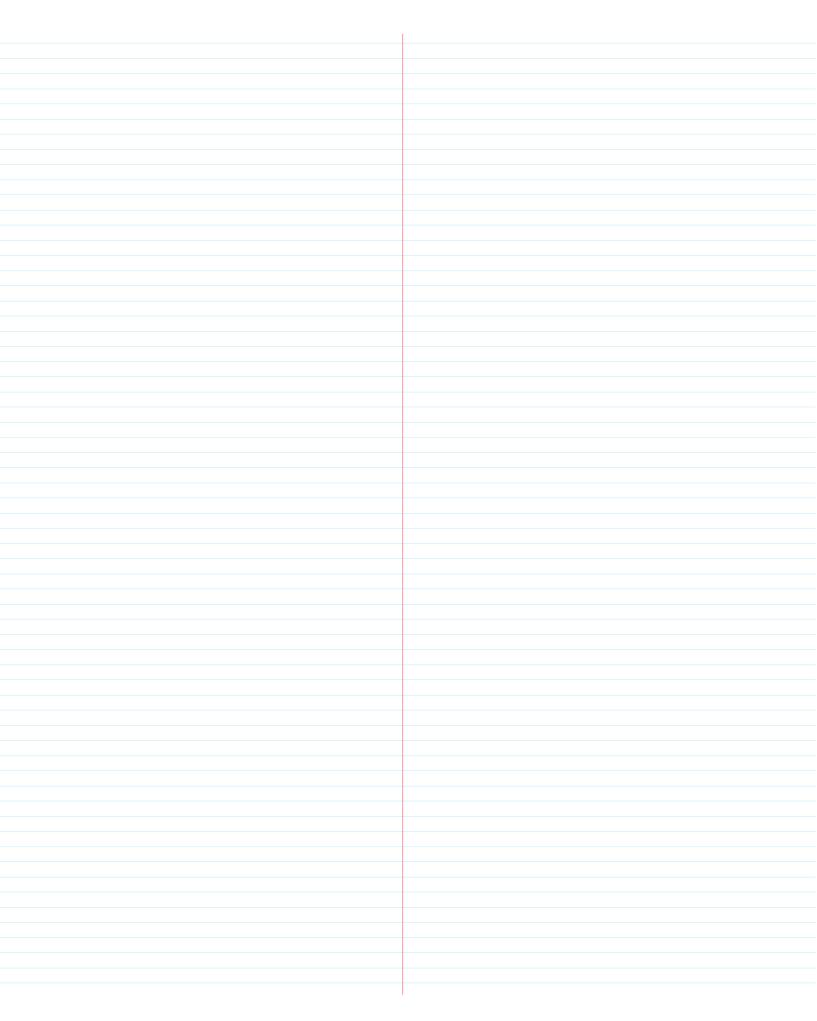


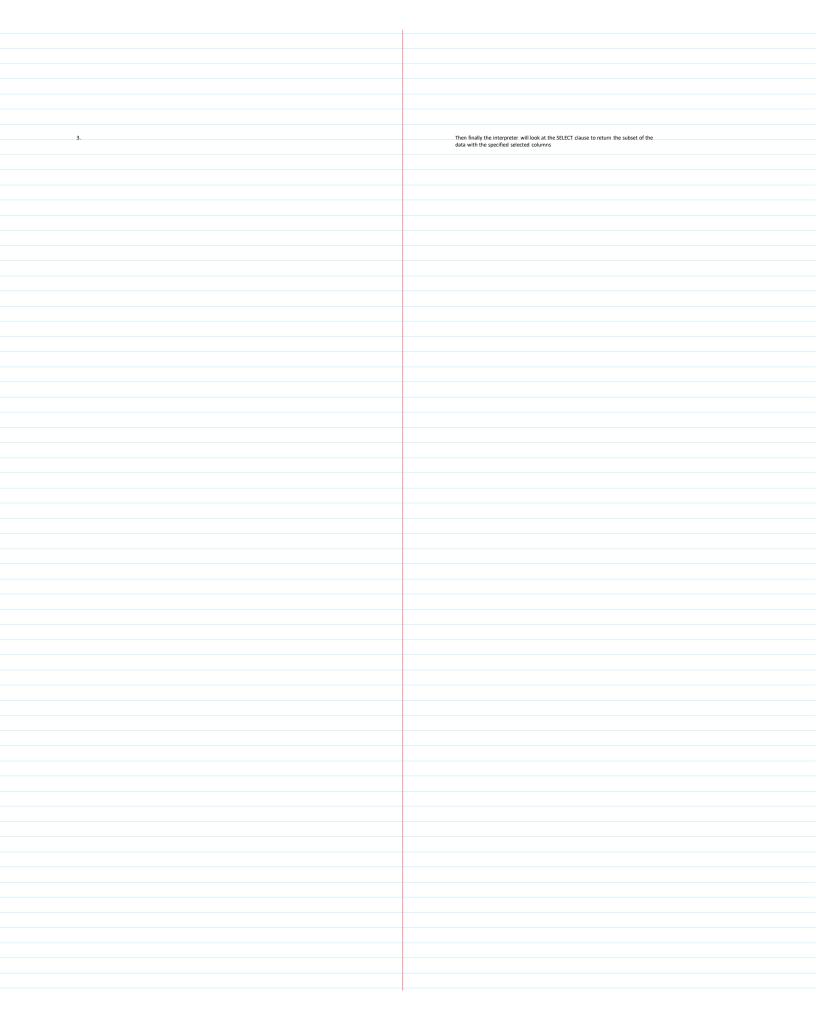


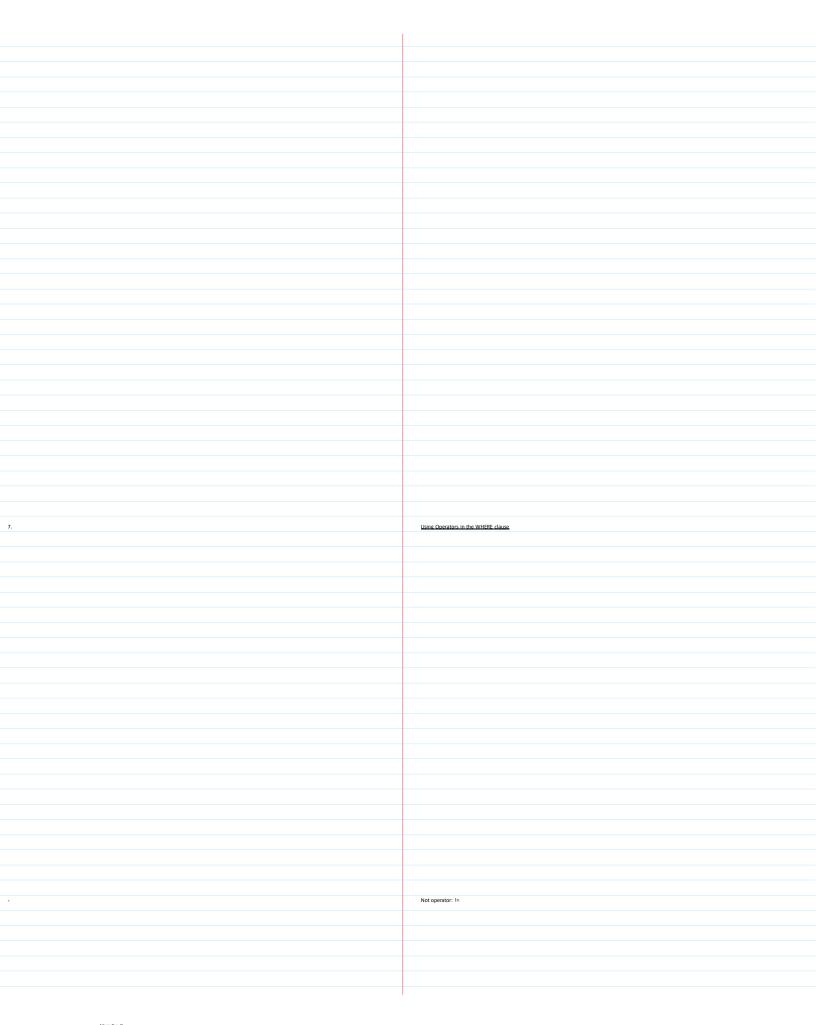
0	Incorrect logic can result in no data found
0	Data does not exist in the table
•	
	SQL command and oracle database interactions
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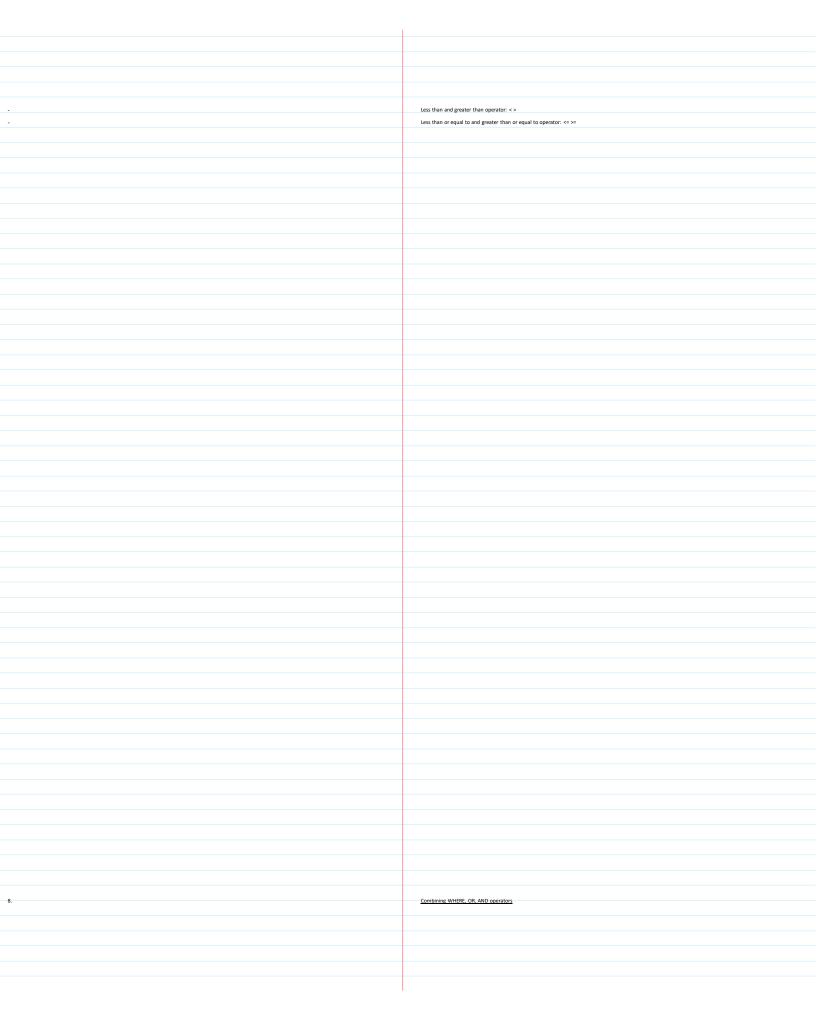


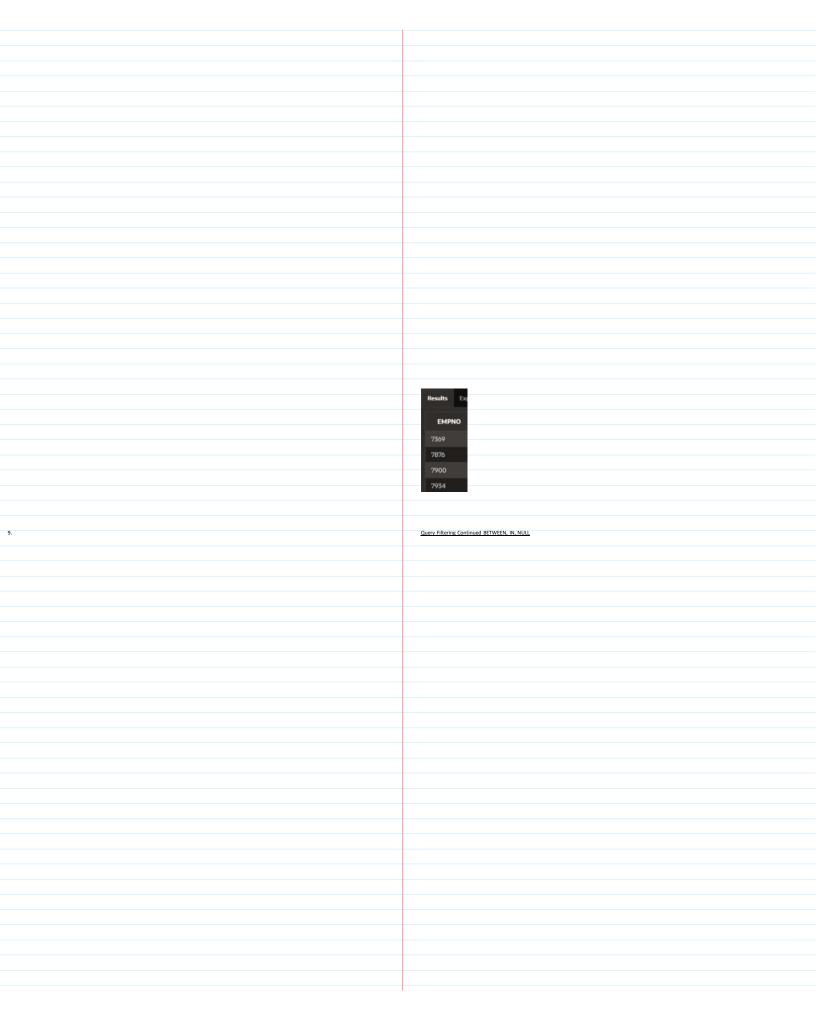
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2. Then the interpreter will look at the WHERE clause and its conditions. Pick the ones that satisfy the condition and bring the records to another result set for further		
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The control of the co	1.	The Oracle software first takes a look at the FROM clause, and pulls up the table in which we will be taking a look at.
	2.	Then the interpreter will look at the WHERE clause and its conditions. Pick the ones
		that satisfy the condition and bring the records to another result set for further narrowing



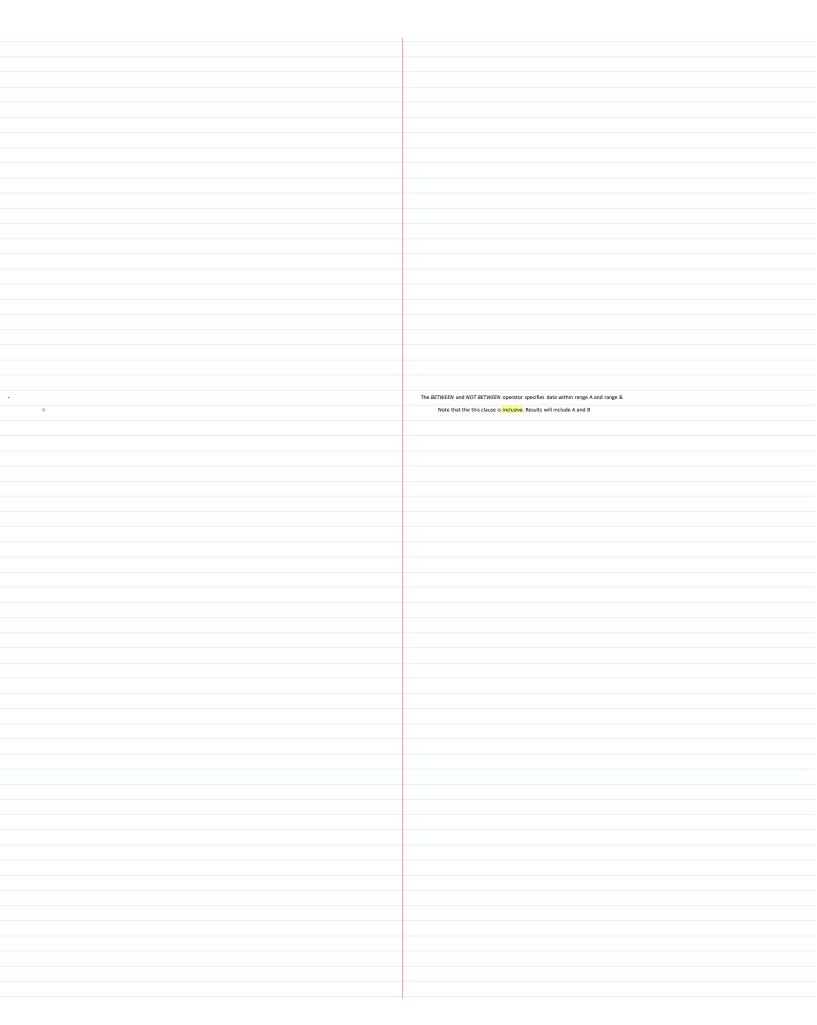


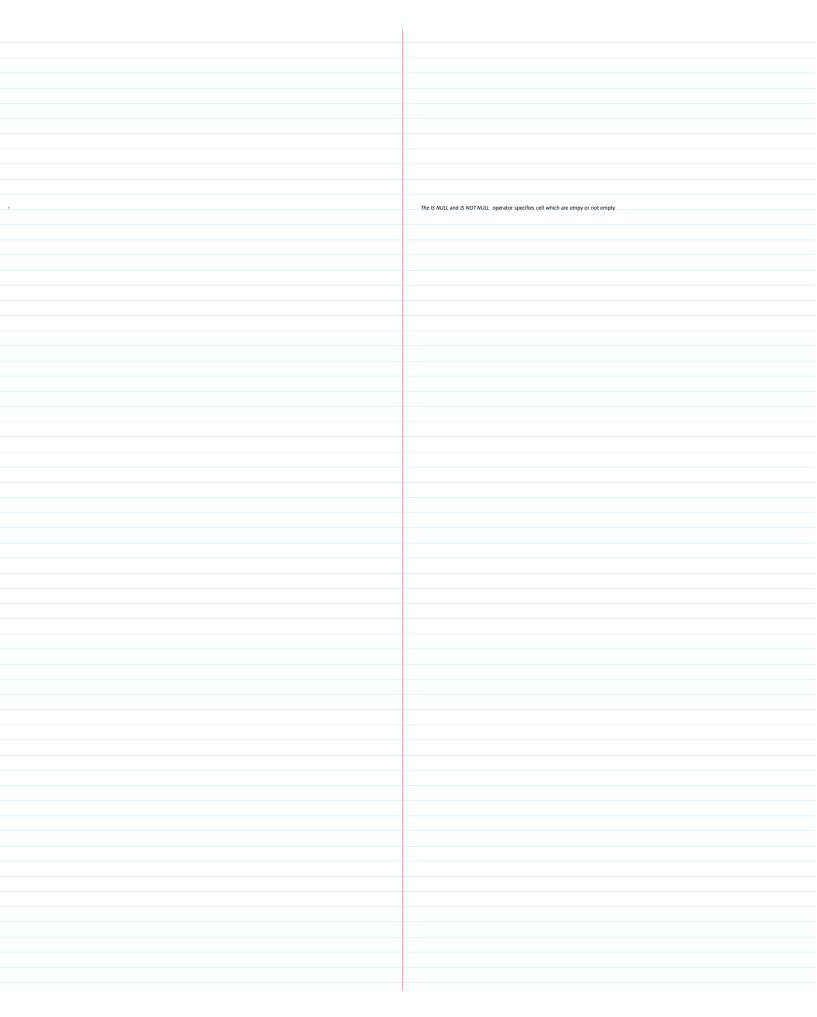






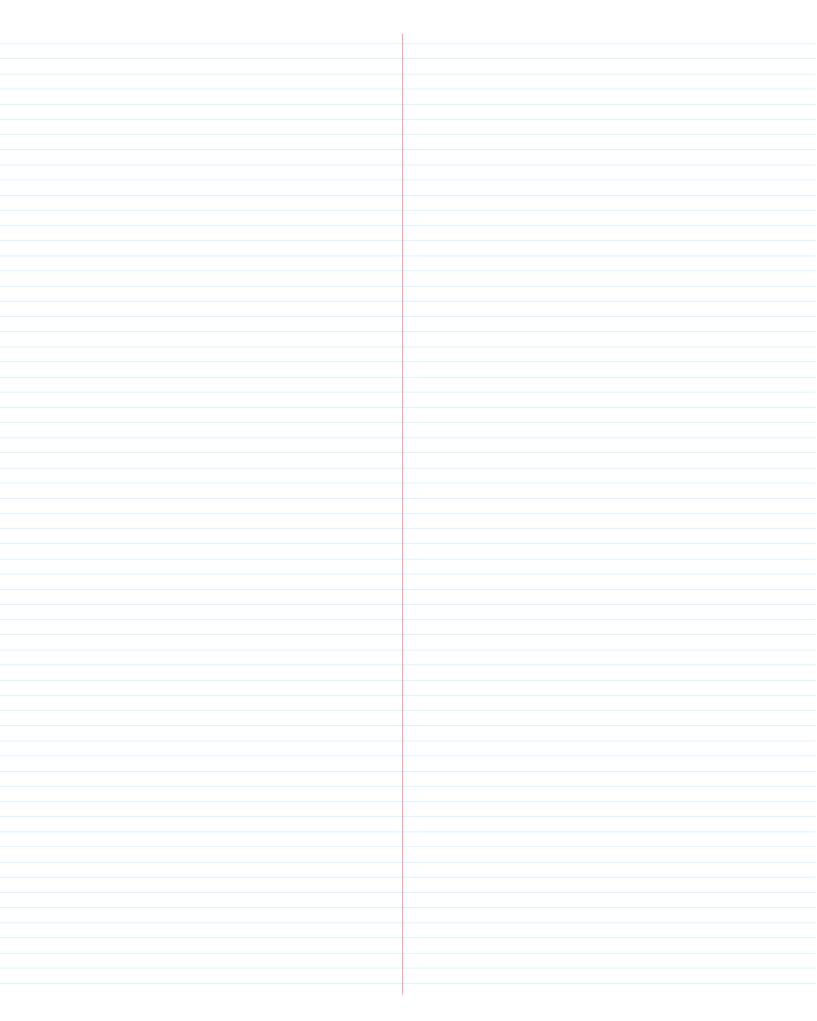
The IN and NOT IN keyword allows us to include data comparisons in one line instead of writing a bunch of OR clauses
mining a deficit by Ori Calabet

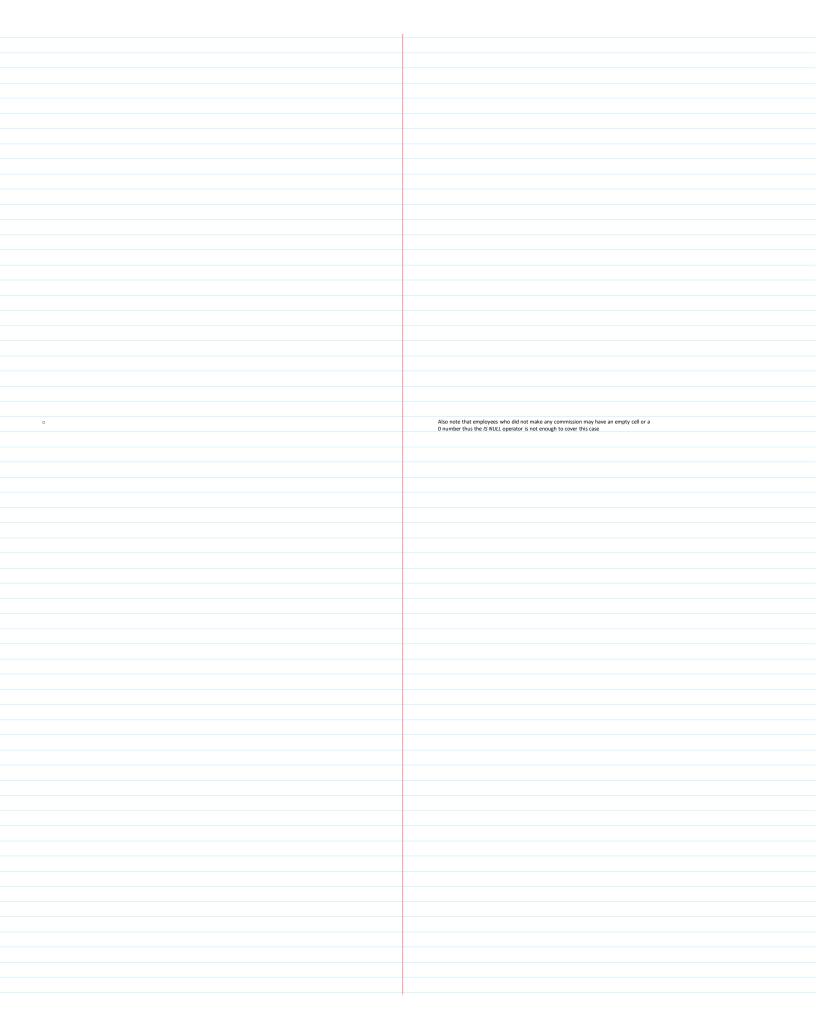


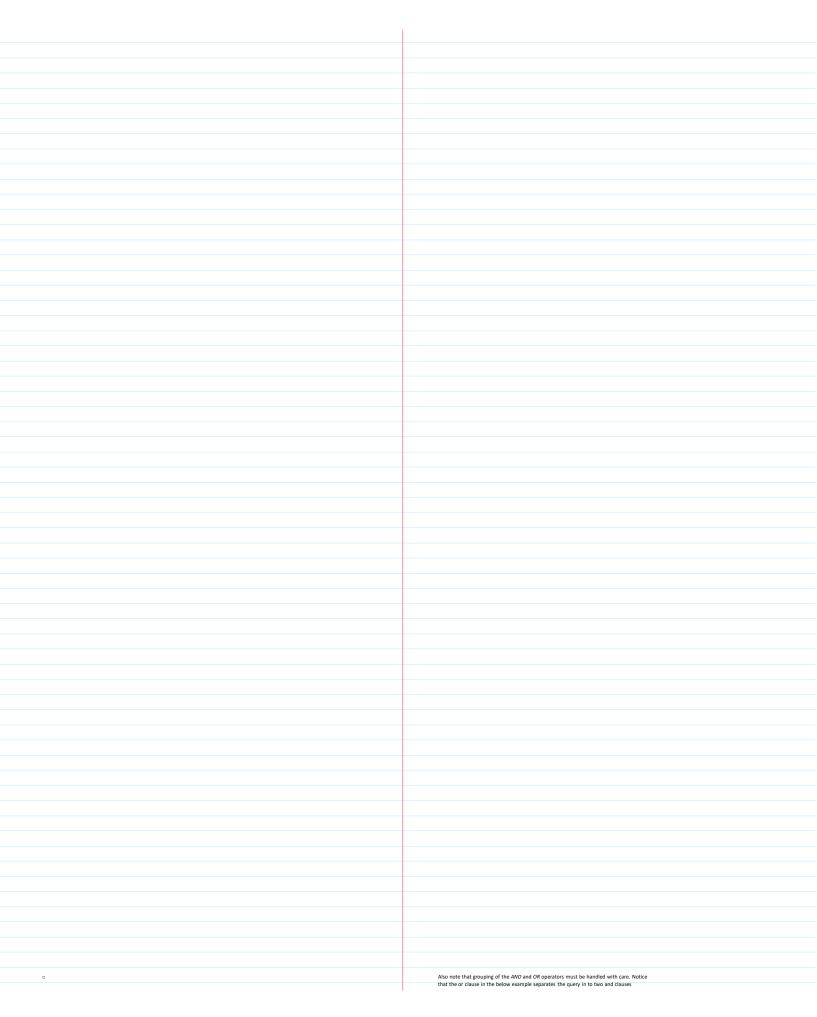


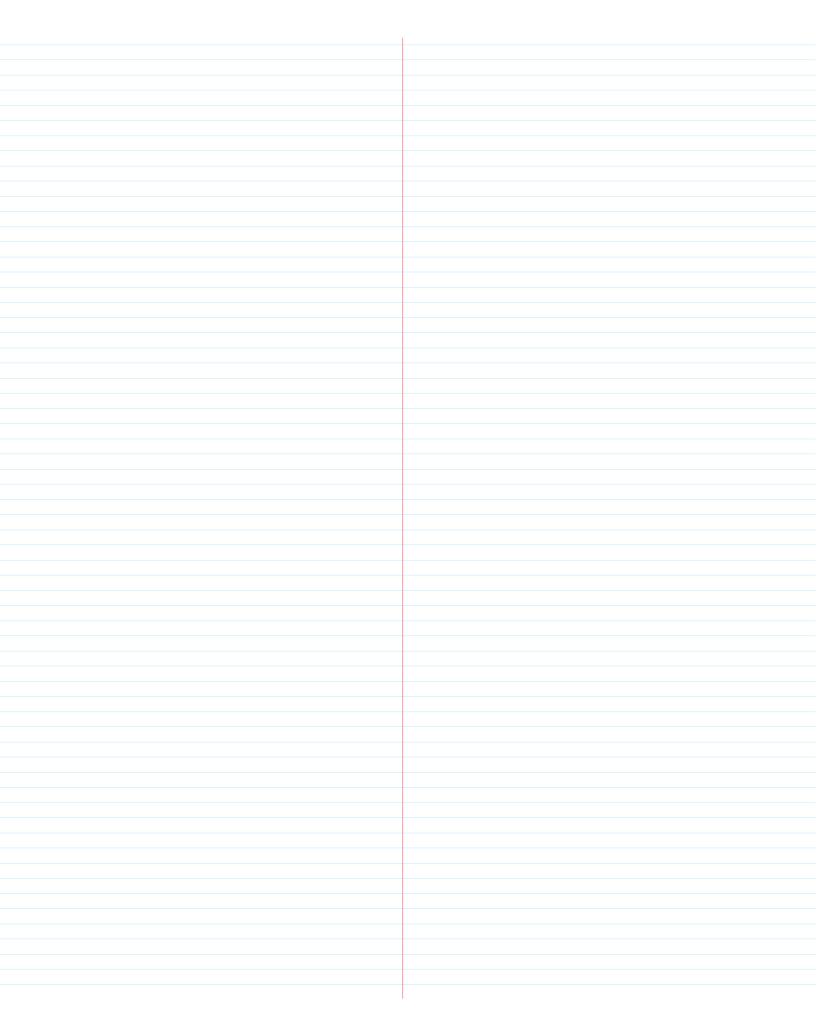
10.	Query Filtering Conditions and Operator Precedence
	Practice: records who did not make any commission whose salary is greater than 1100 but less than 5000 and not 3000
	less than 5000 and not 3000

	Note that you exceed use the OCTIVICEN days have
0	Note that you cannot use the BETWEEN clause because it is inclusive and we are looking for salaries greater than or greater than or equal to



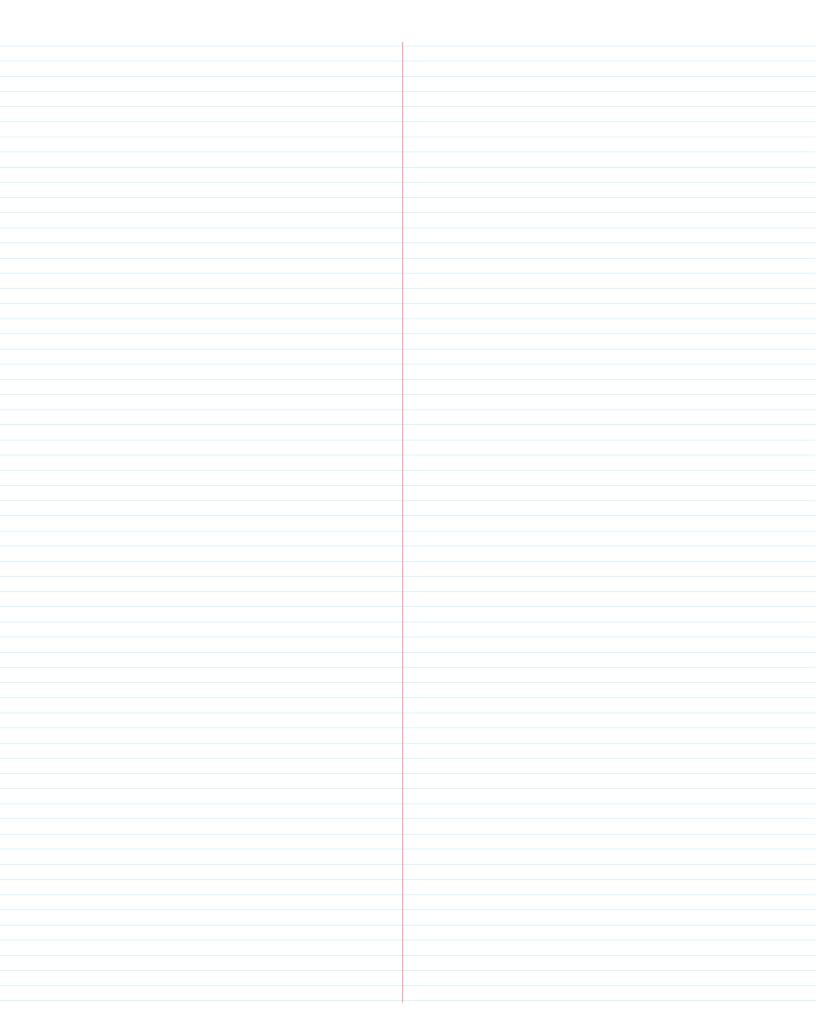


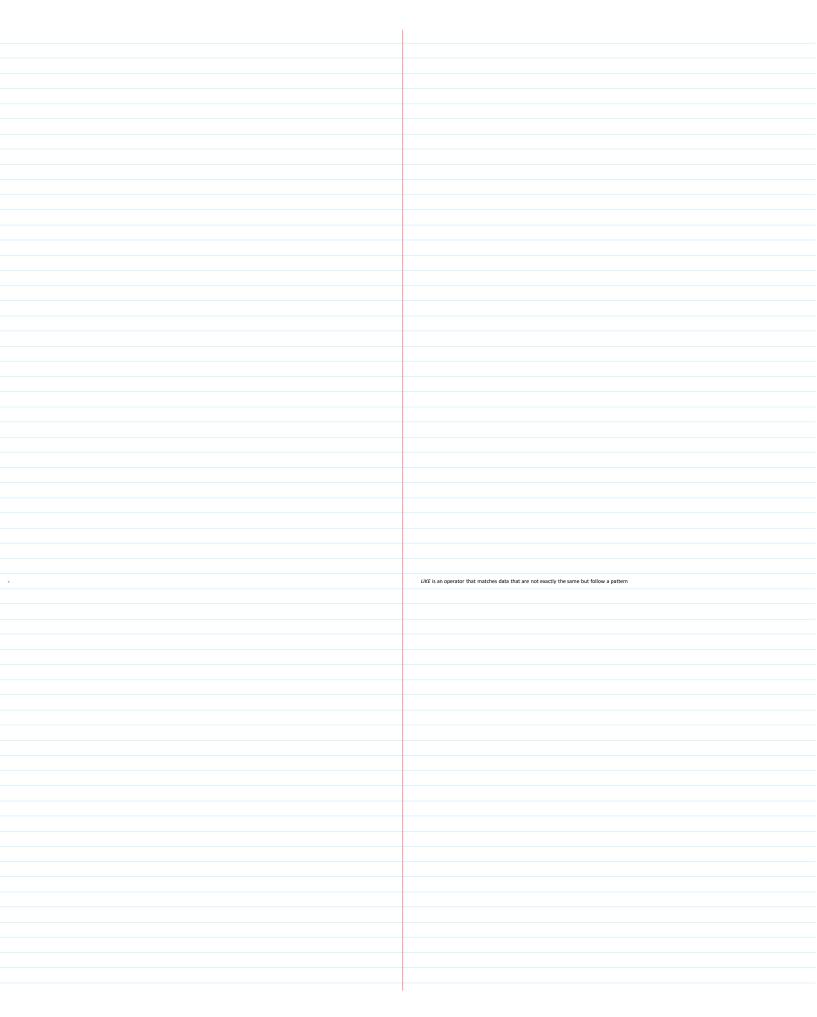


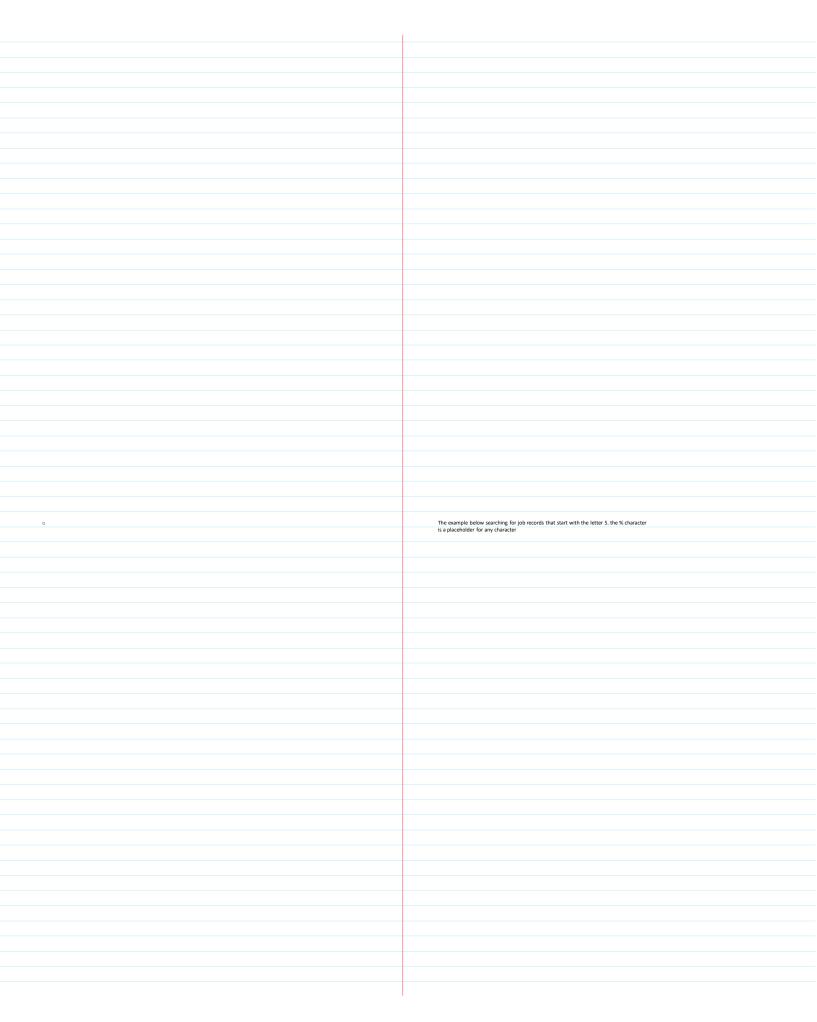


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	If becomes (A & B) C & D but we want (A & B & D) C-

	Brackets will have precedence in logic evaluation
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	Logic can be tricky logic that are in the brackets are applied to the record first and then the rest of the logic right to left is then applied to the record
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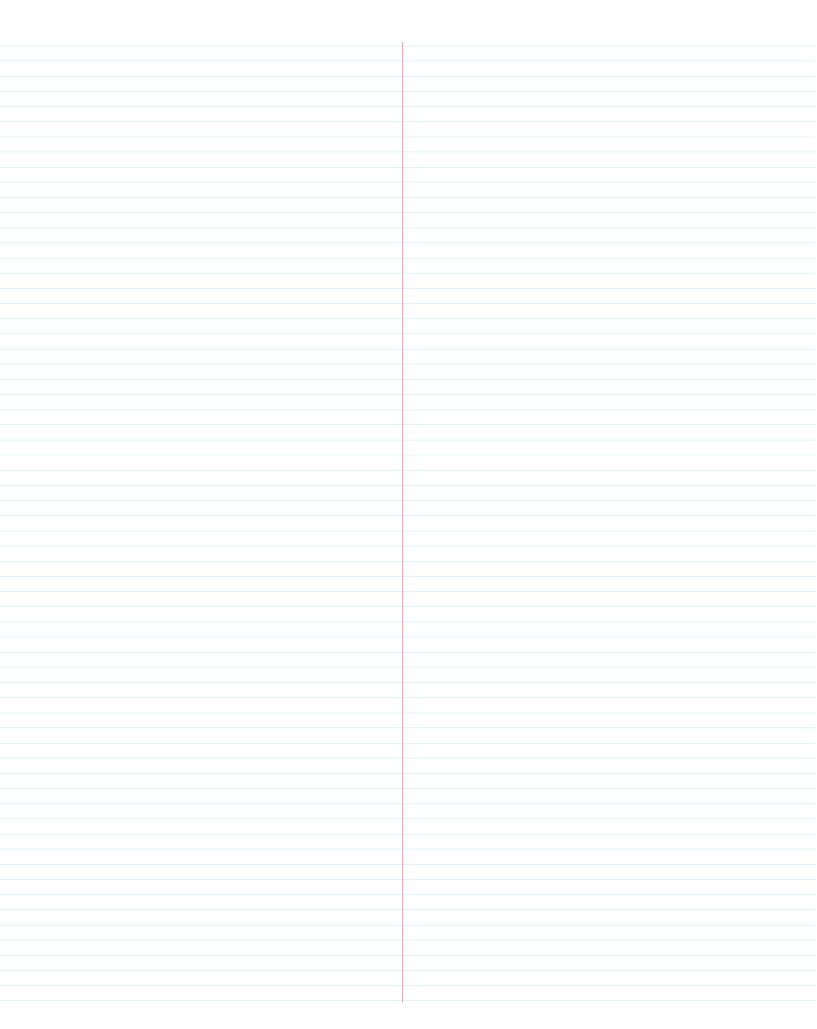


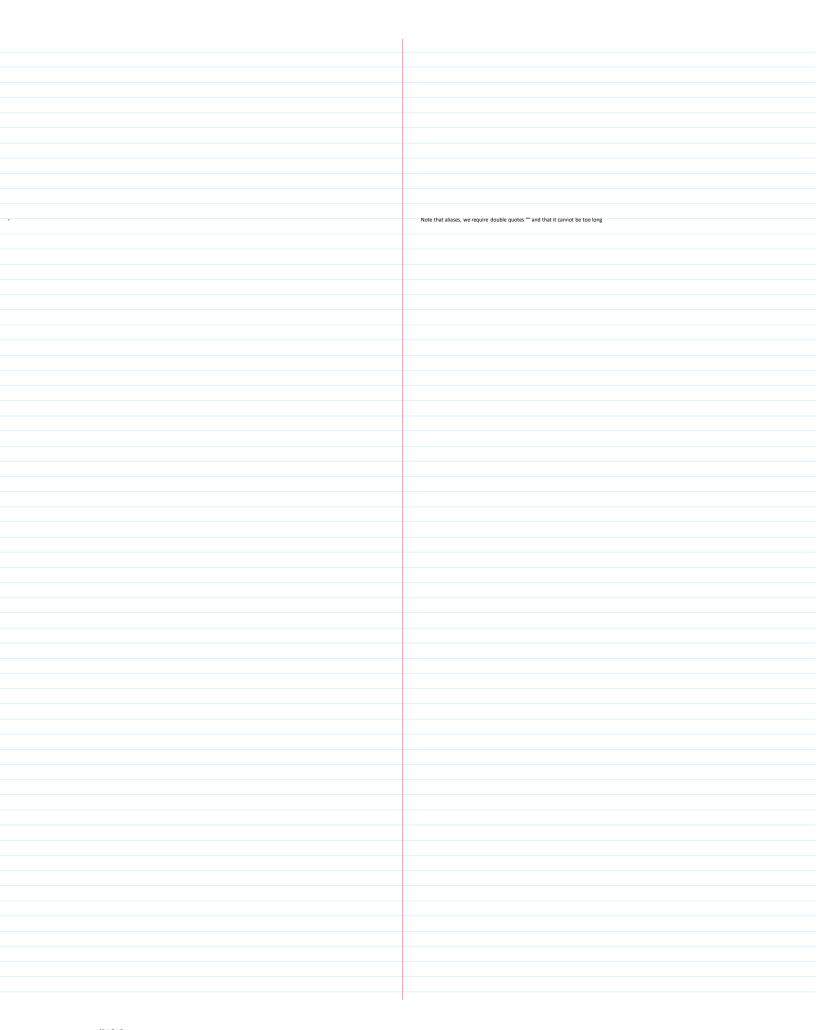




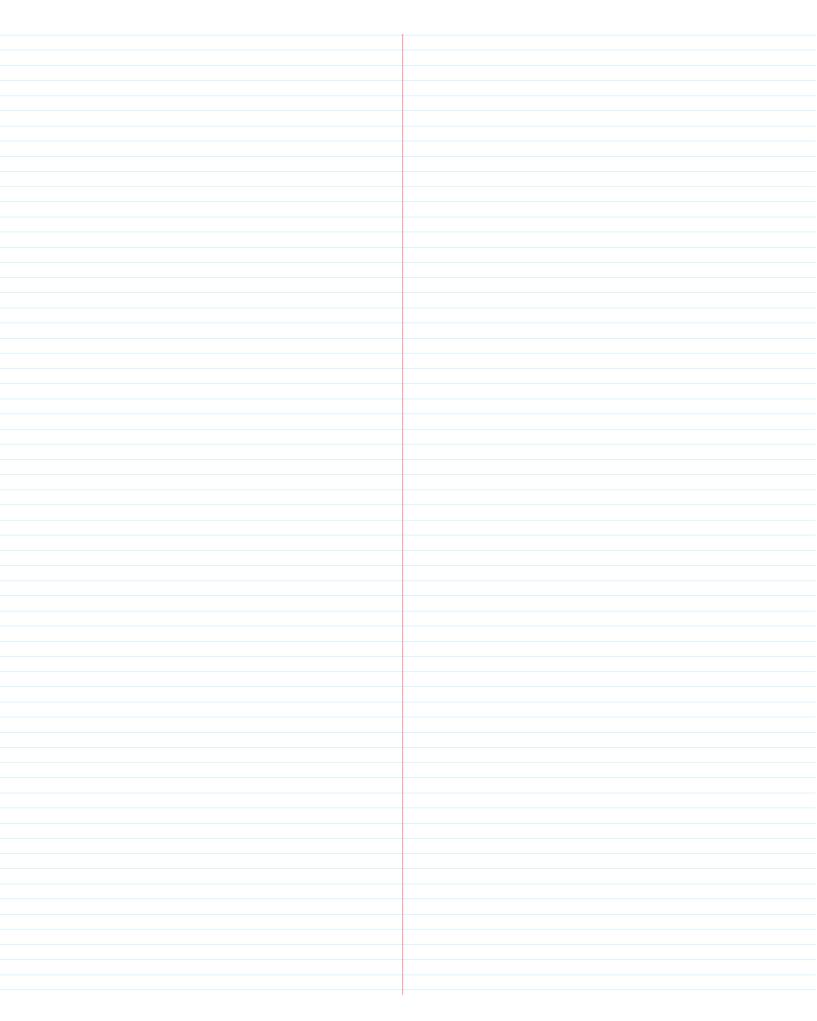
11.	Ordering, Concatenating and Aliasing Query result.
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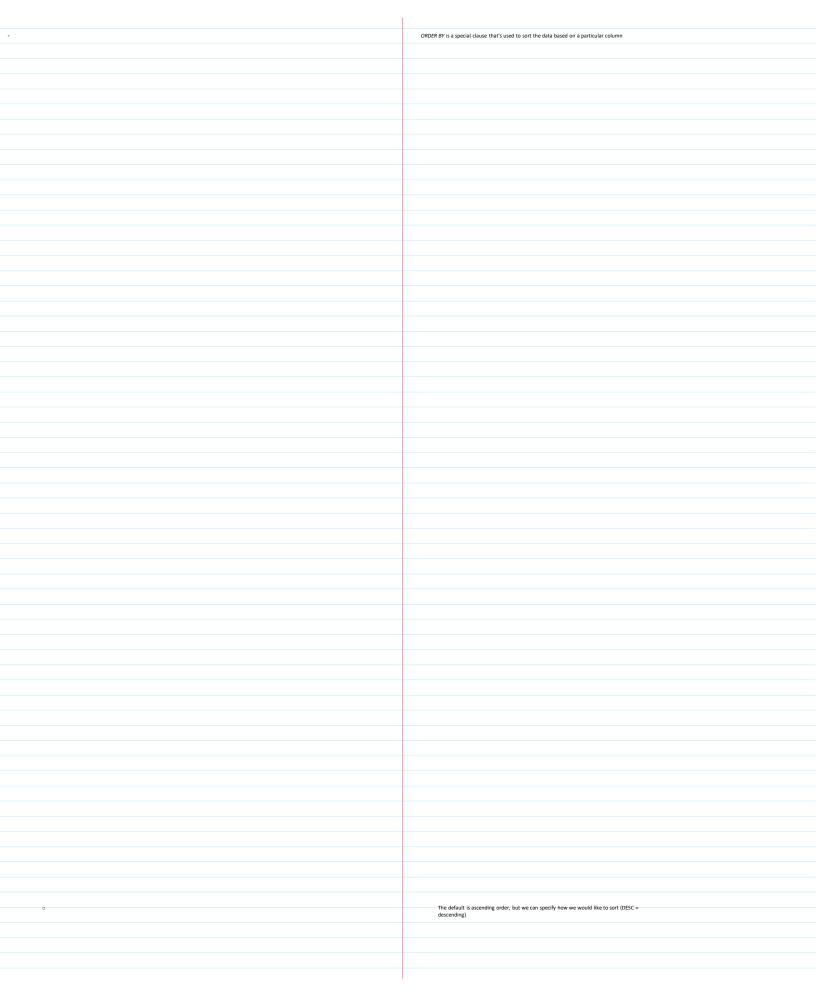
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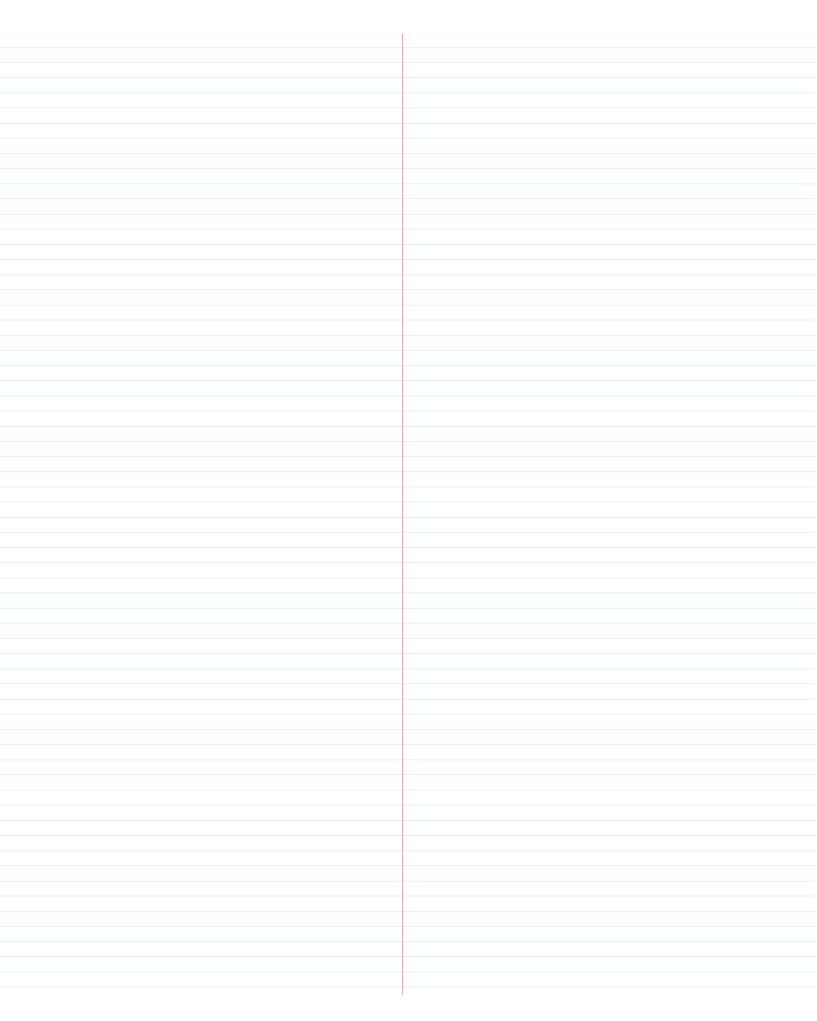


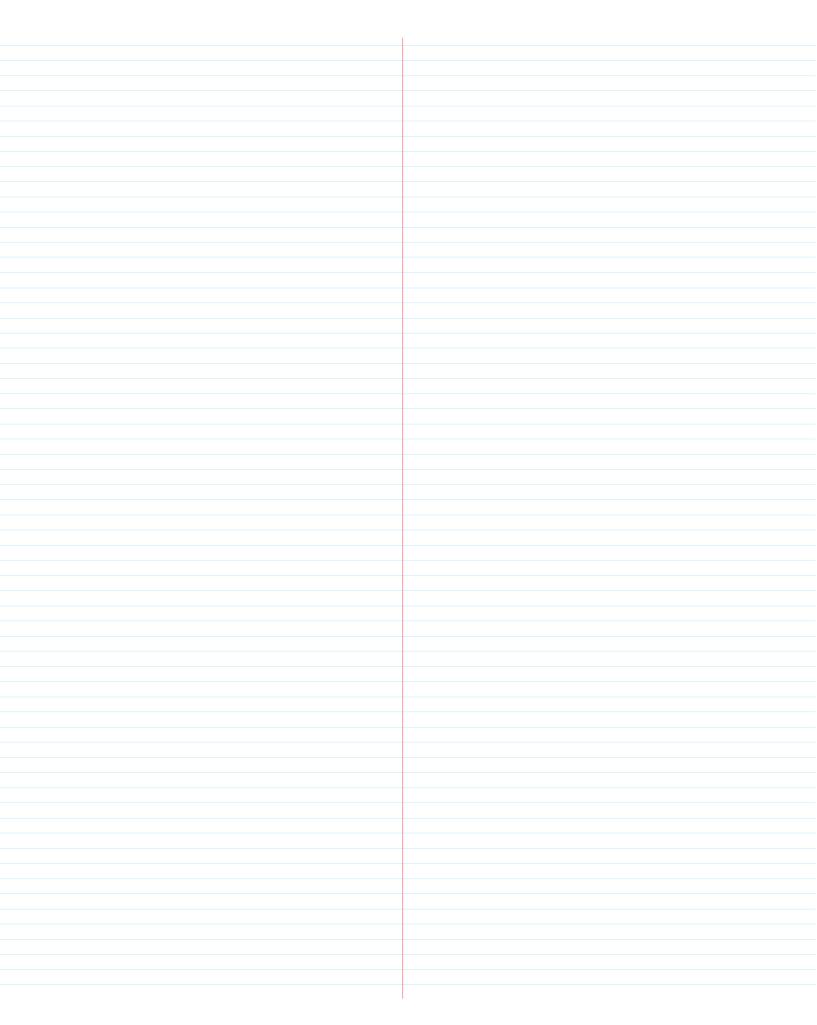


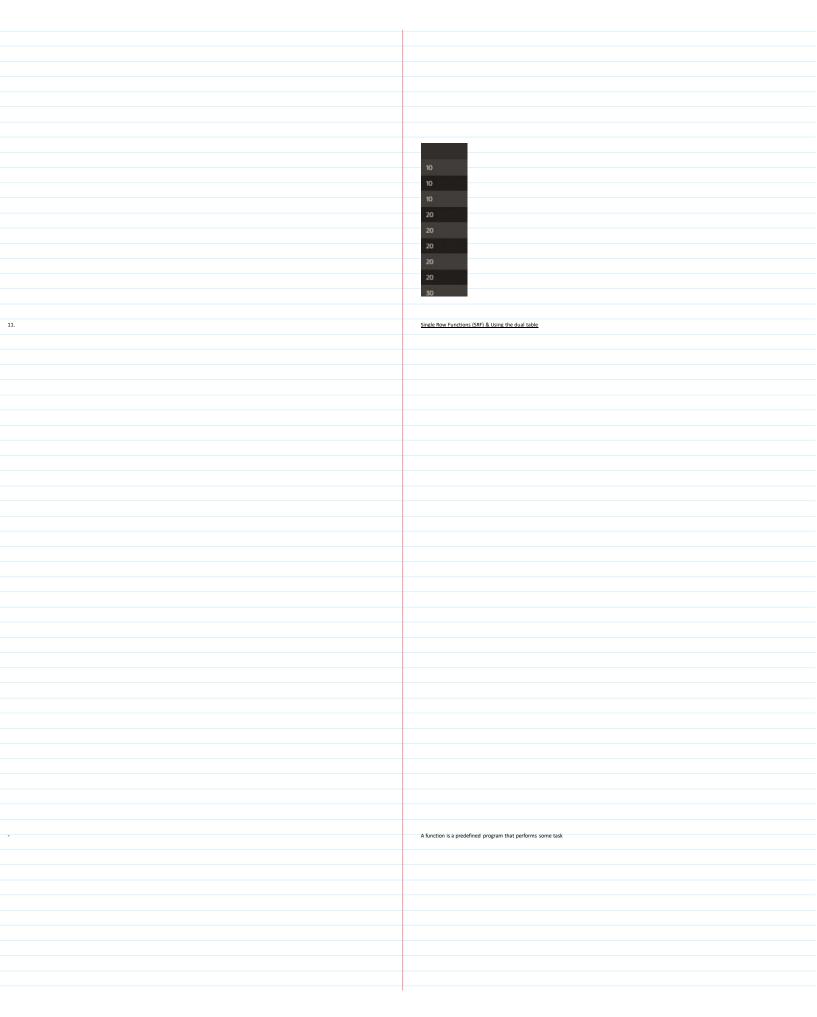




0	Sorting by multiple columns is also possible. The first column specified will be sorted first,
	Sorting by multiple columns is also possible. The first column specified will be sorted first, the second column will be sorted in groups based on the first column record, and so on and so forth

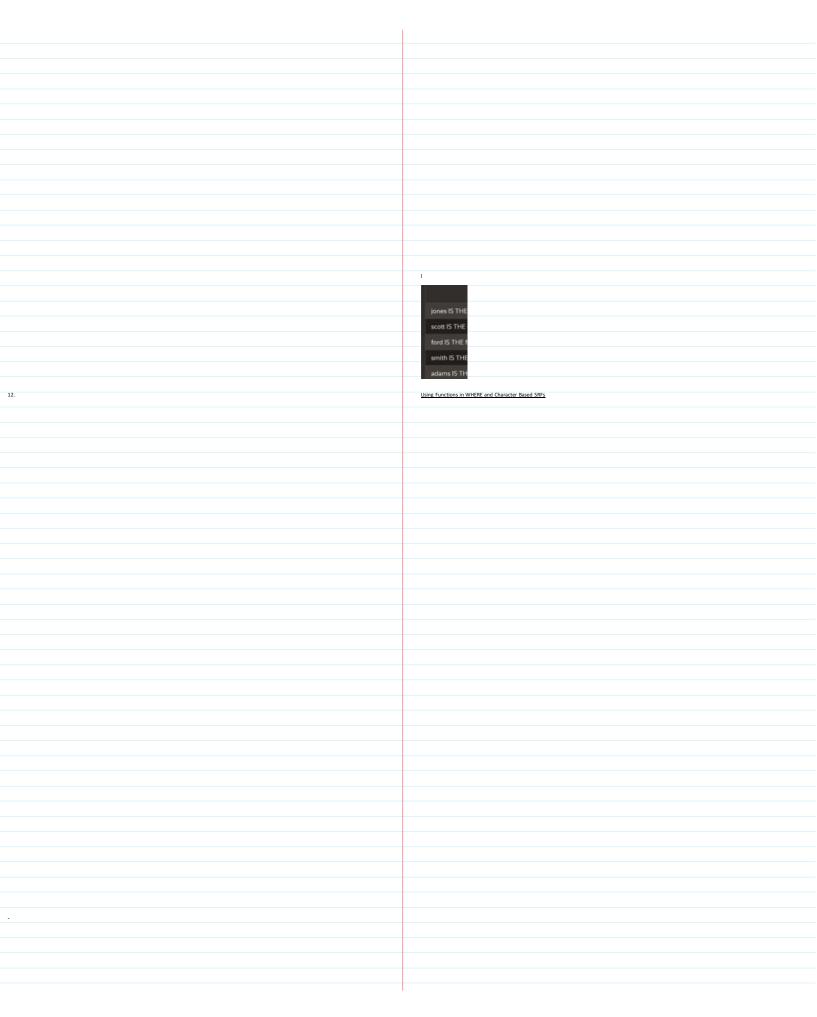


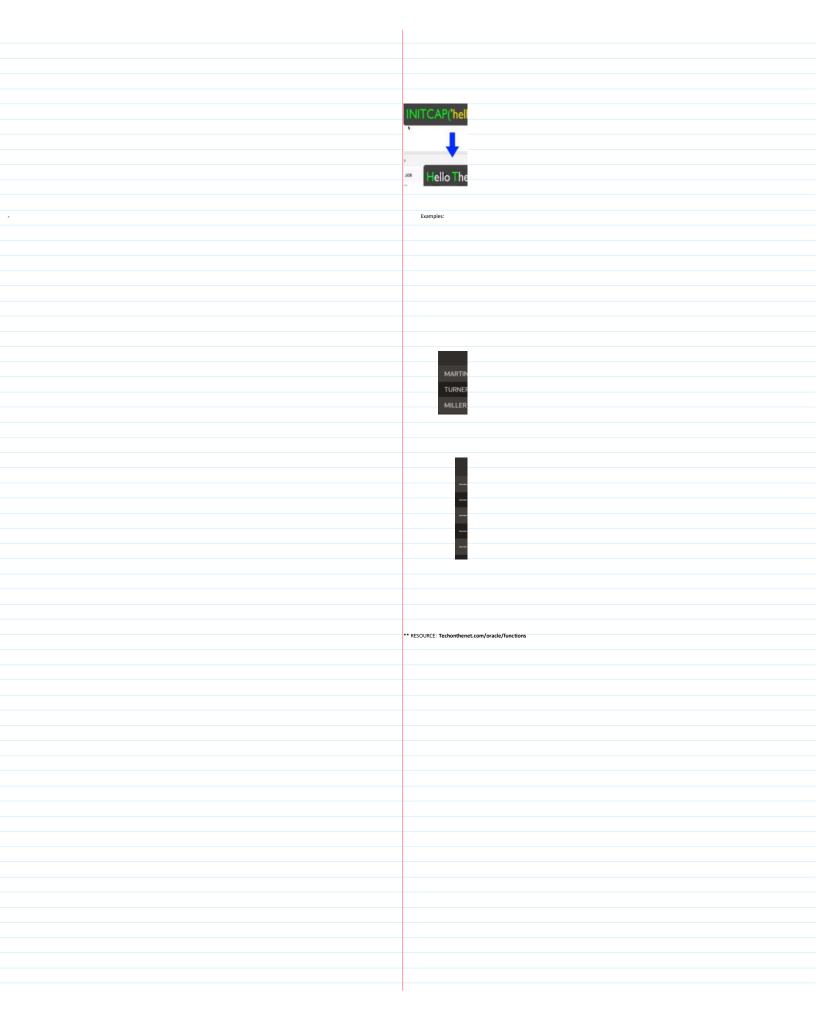




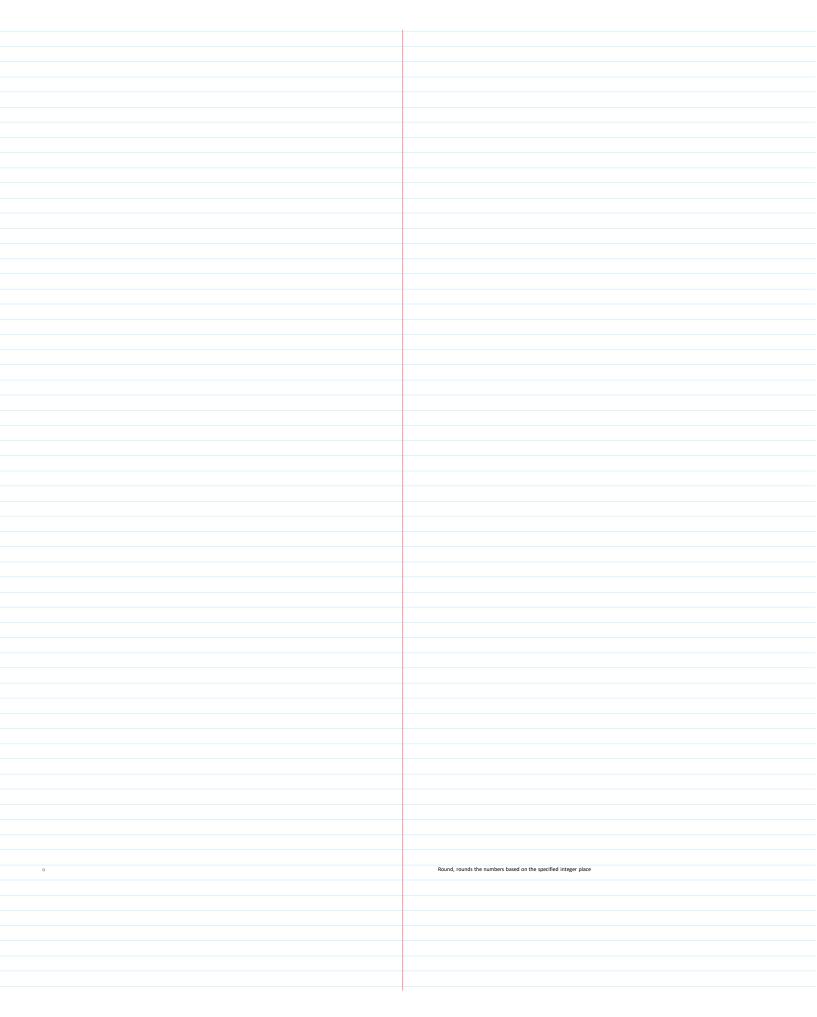
0	sumThese(5,7,5) is a function that returns the sum of all the numbers that were passed in it arguments

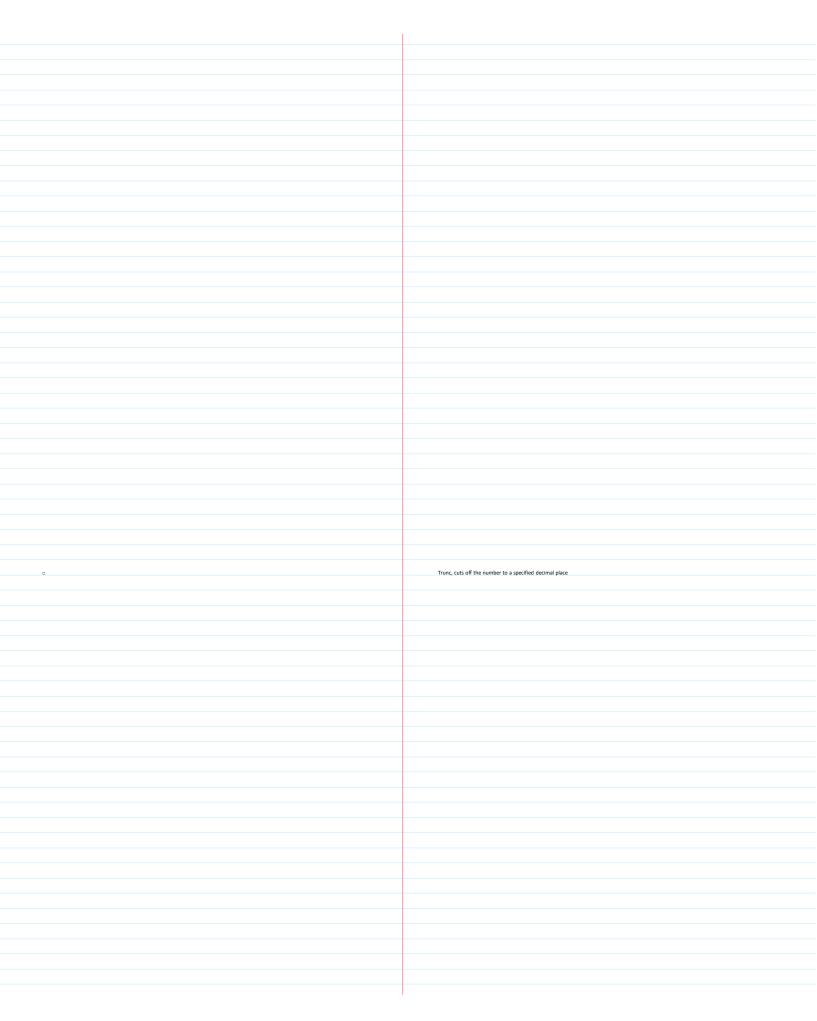
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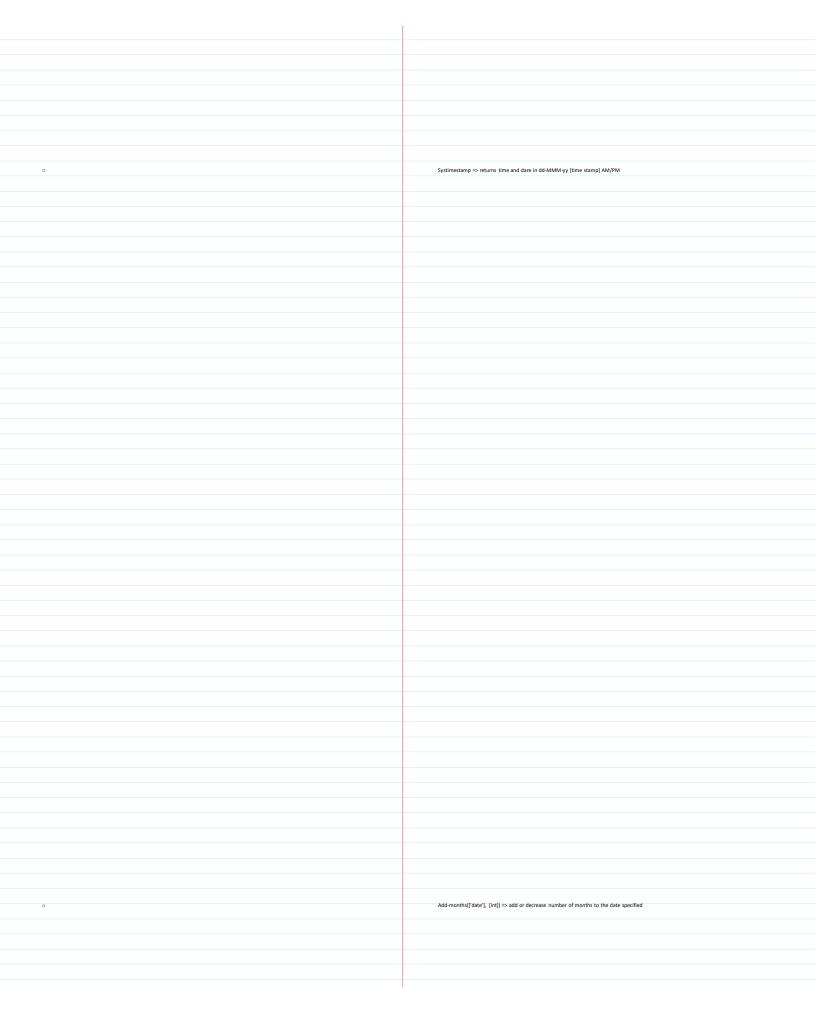


14.	Numeric and Date Data Type SRFs
	Numeric SRFs: accept numbers as their argument. They are used to conduct mathematical
	Numeric SRFs: accept numbers as their argument. They are used to conduct mathematical type operations like rounding.
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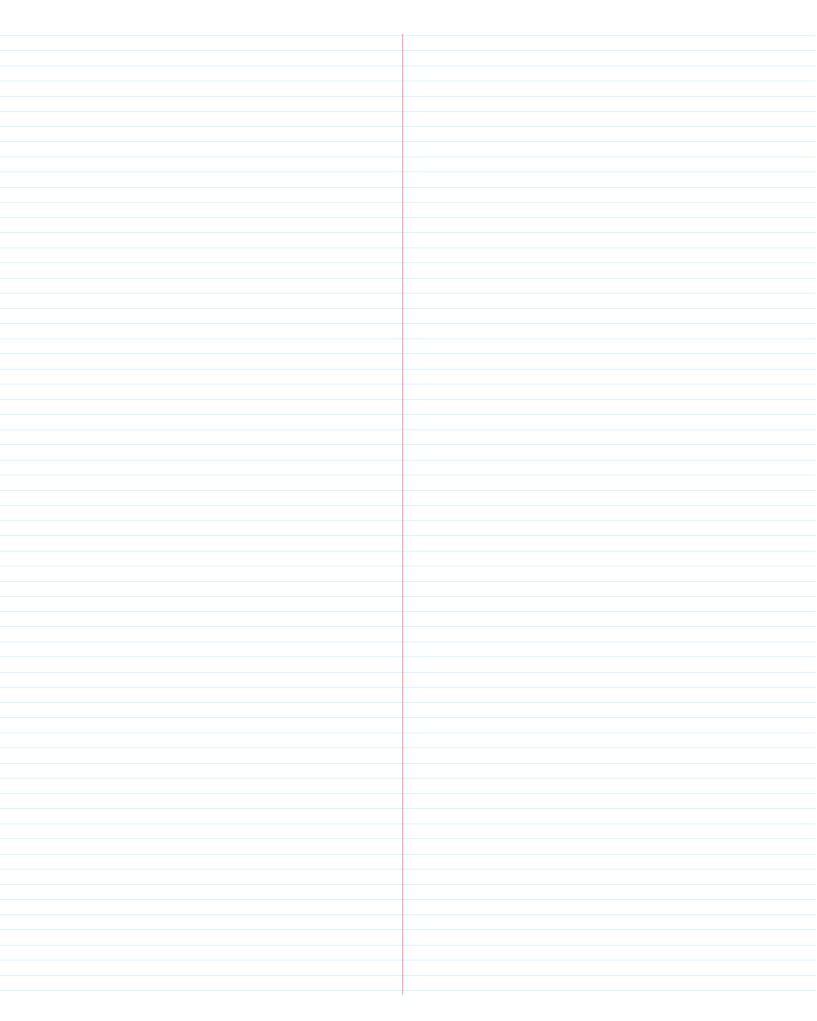


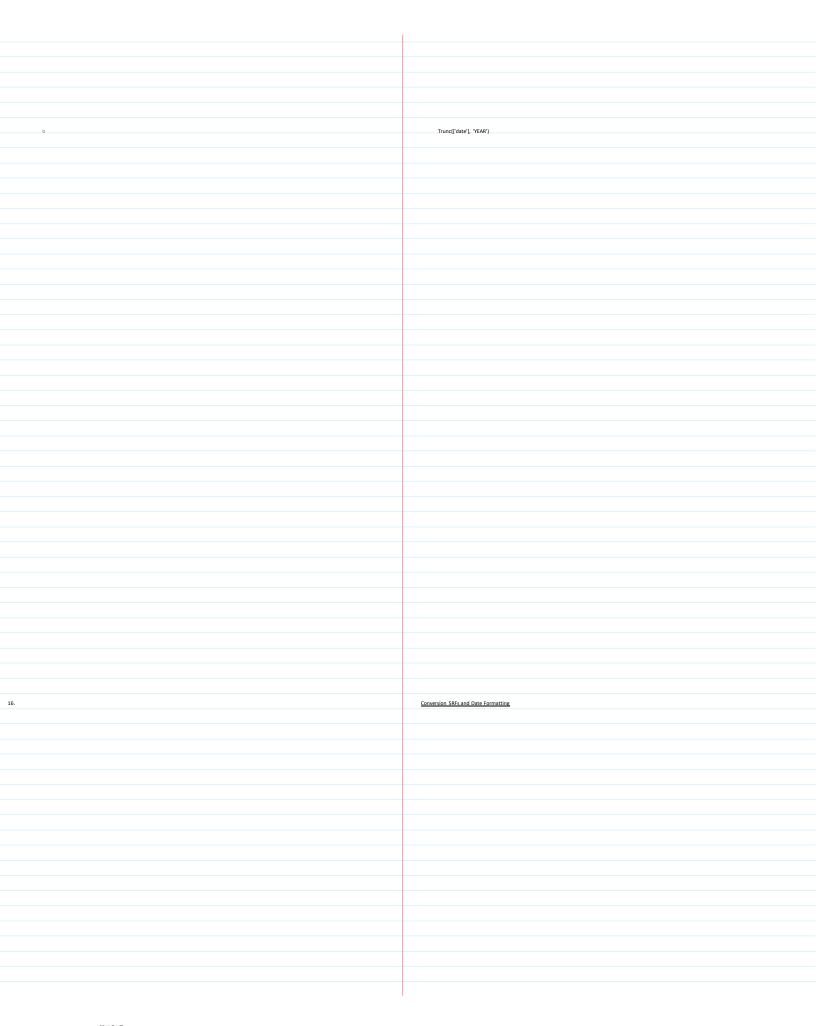


	Date SRFs:
0	Sysdate => returns the system (not your personal) date in mm/dd/yyyy

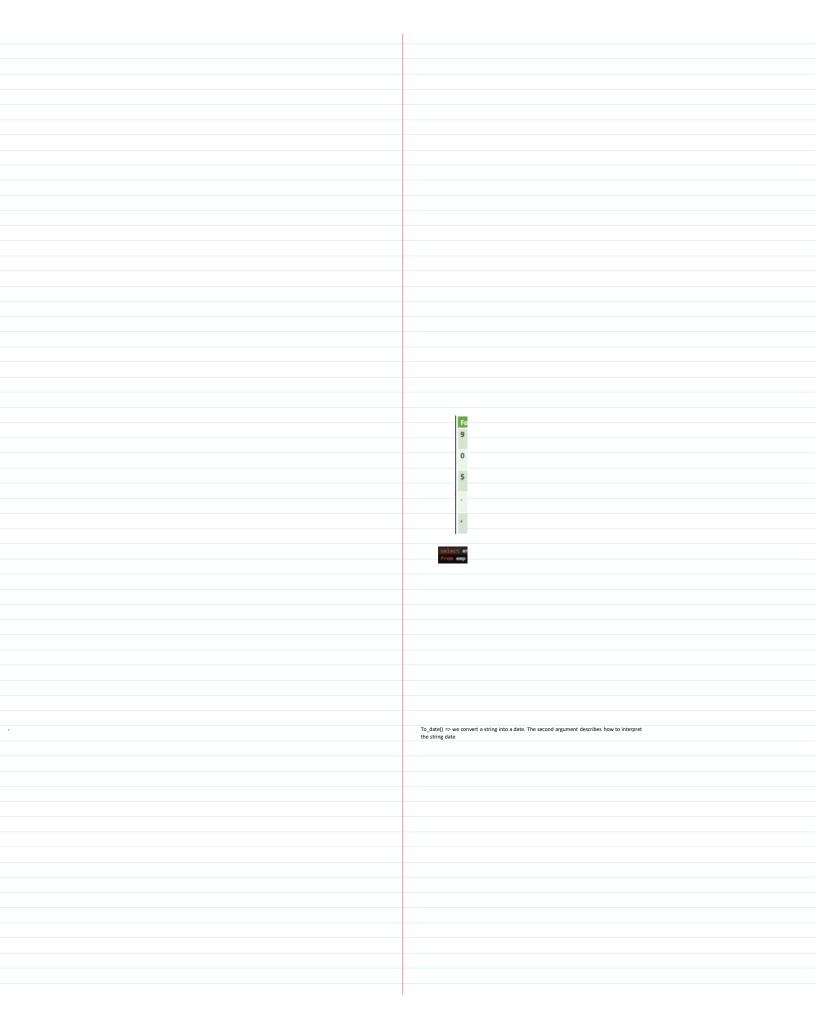


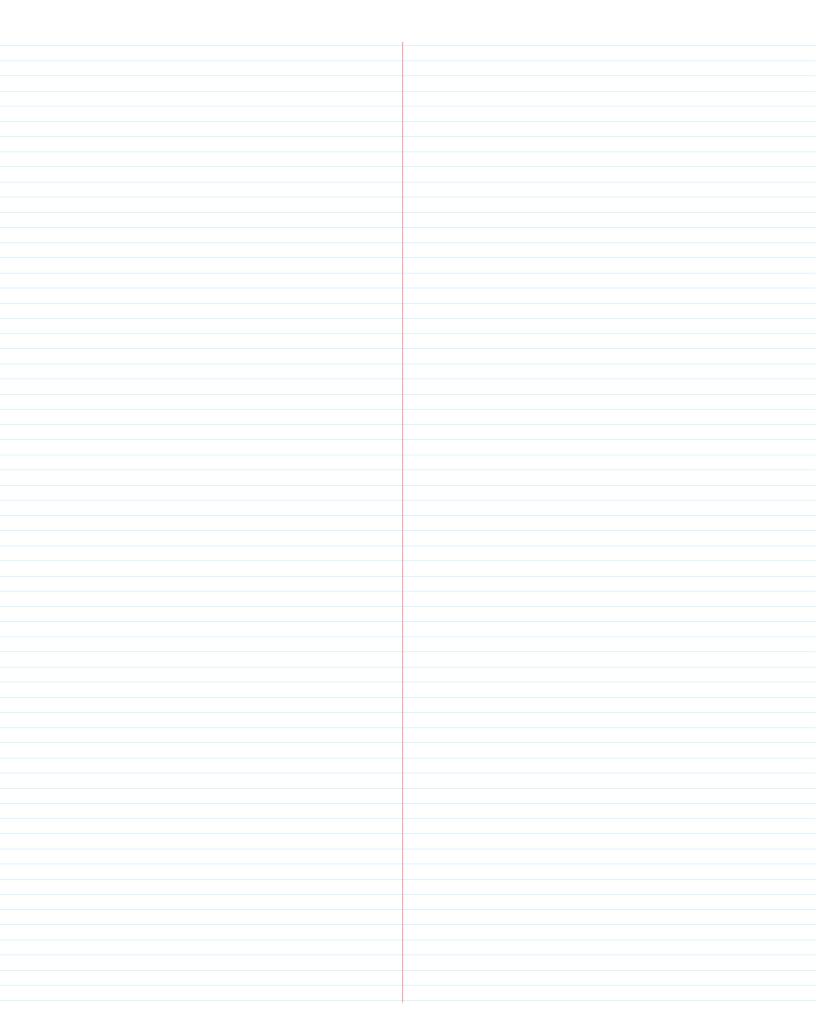
0	Months_between(['date'],['date']) >> returns the number of months between the two specified dates
	specified dates



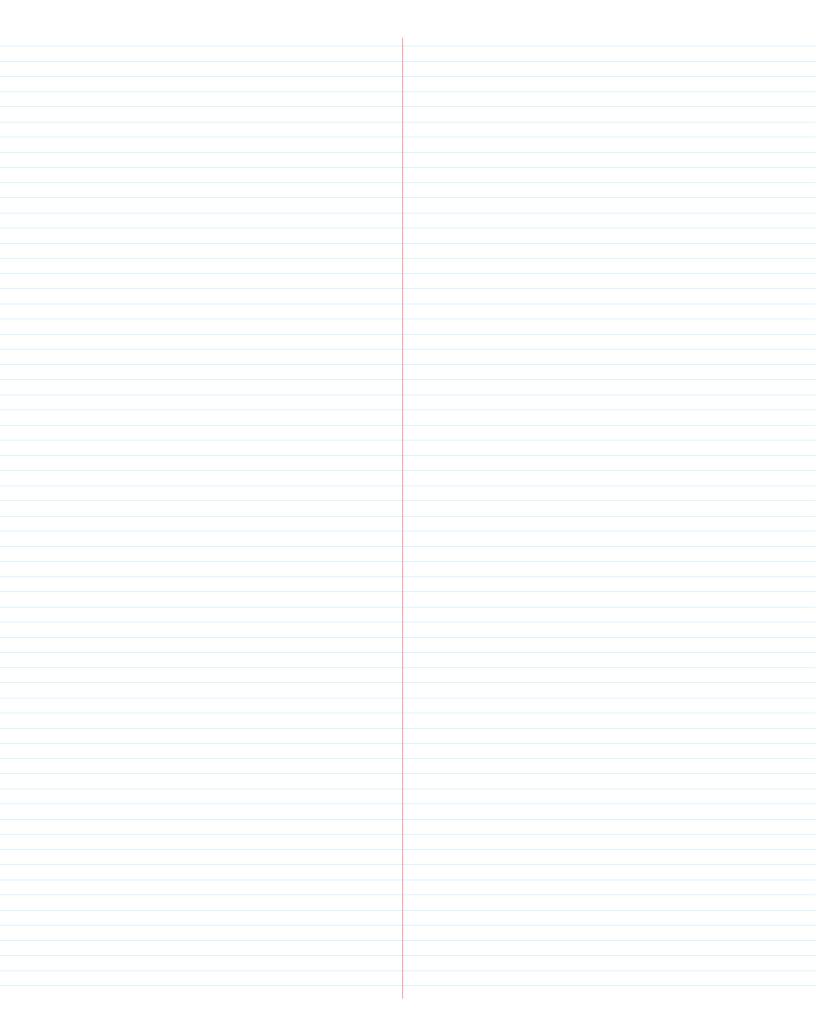


to_char() => converts date or number into character string, and also change the formatting

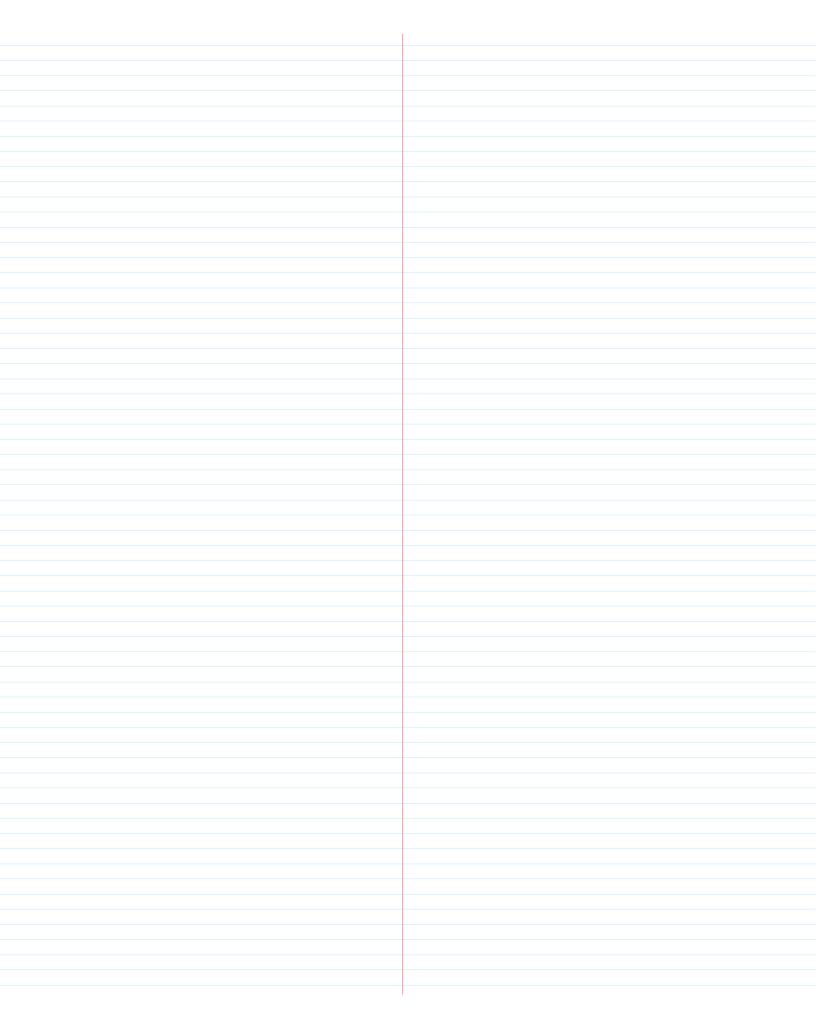


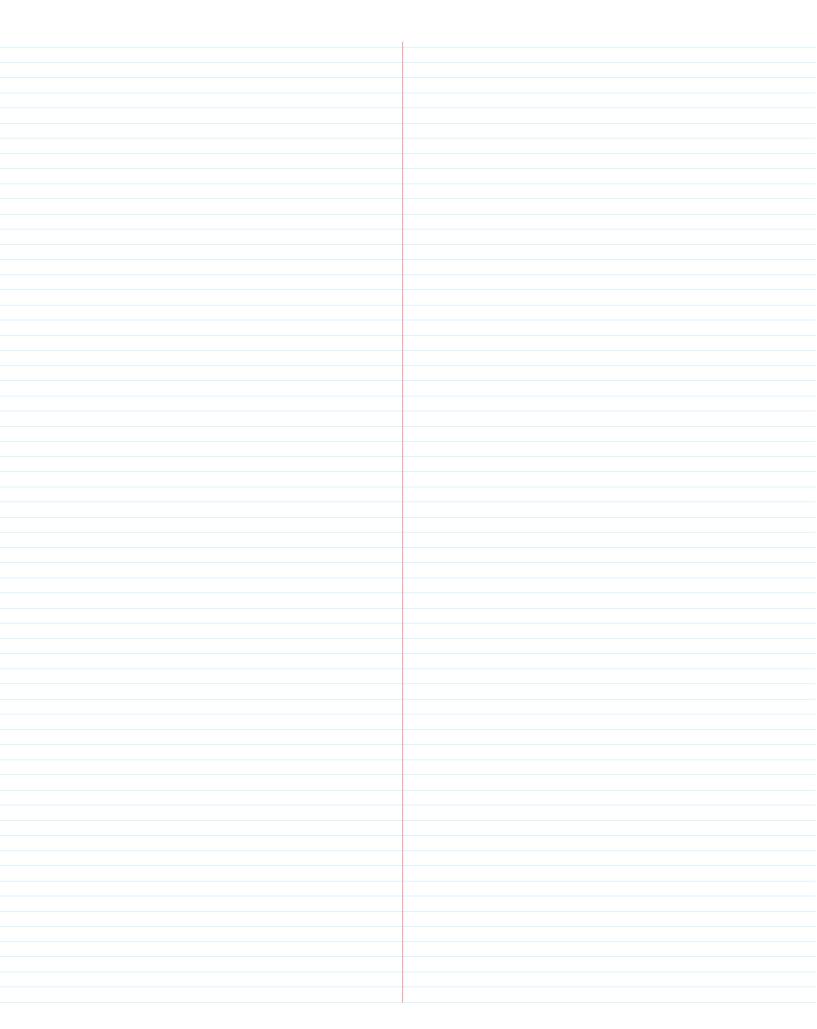


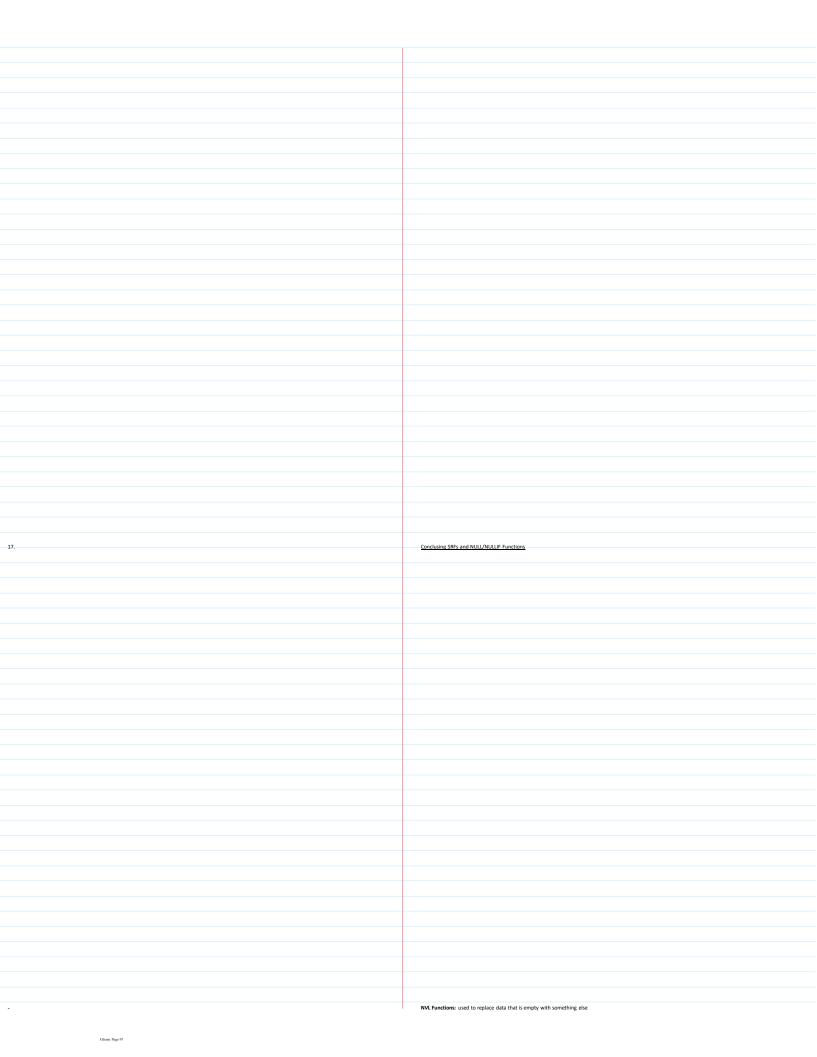
16.	Some more Data Functions
•	Last_day(d) => unction that requires a date as an argument. It returns the last day of the month in which the given date falls. The argument is required for this function to work
	month in which the given date falls. The argument is required for this function to work properly.



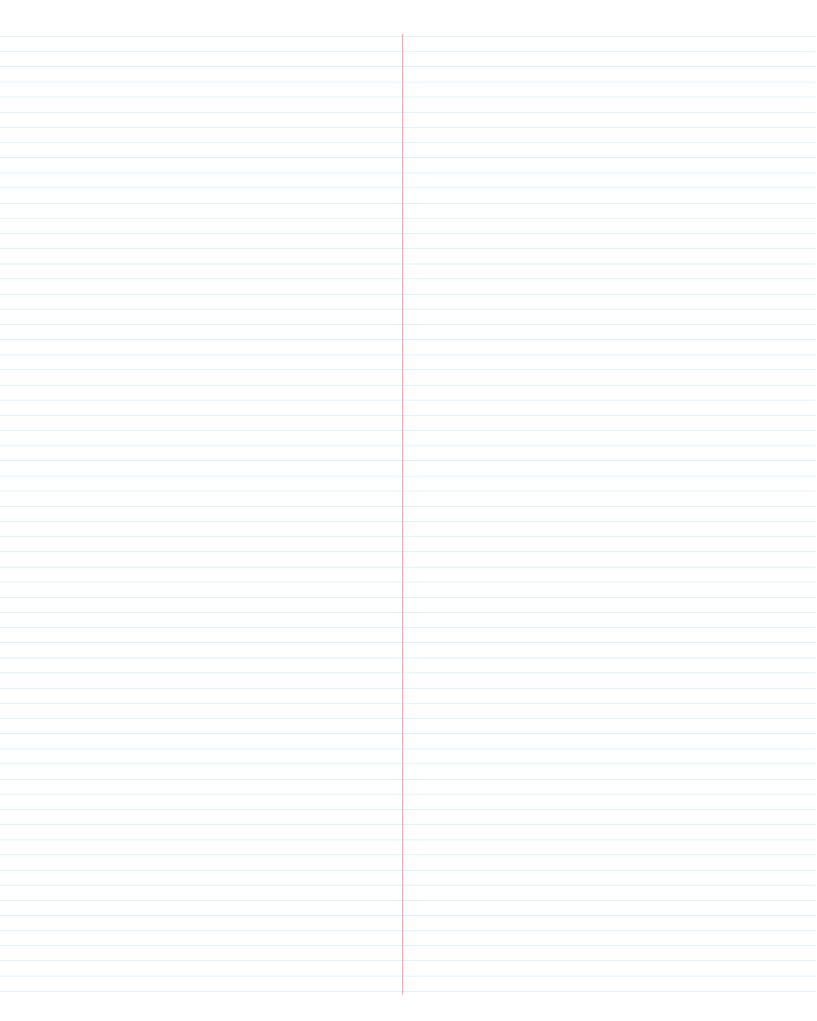
	Next double $ a = 1$ The first argument is the date and the second argument is a text reference
	Next_day(d_{c}) => The first argument is the date and the second argument is a text reference to a day of the week. Both arguments are required for this function to work properly. This function returns a valid date representing the first occurrence of the c day following the date represented in d.
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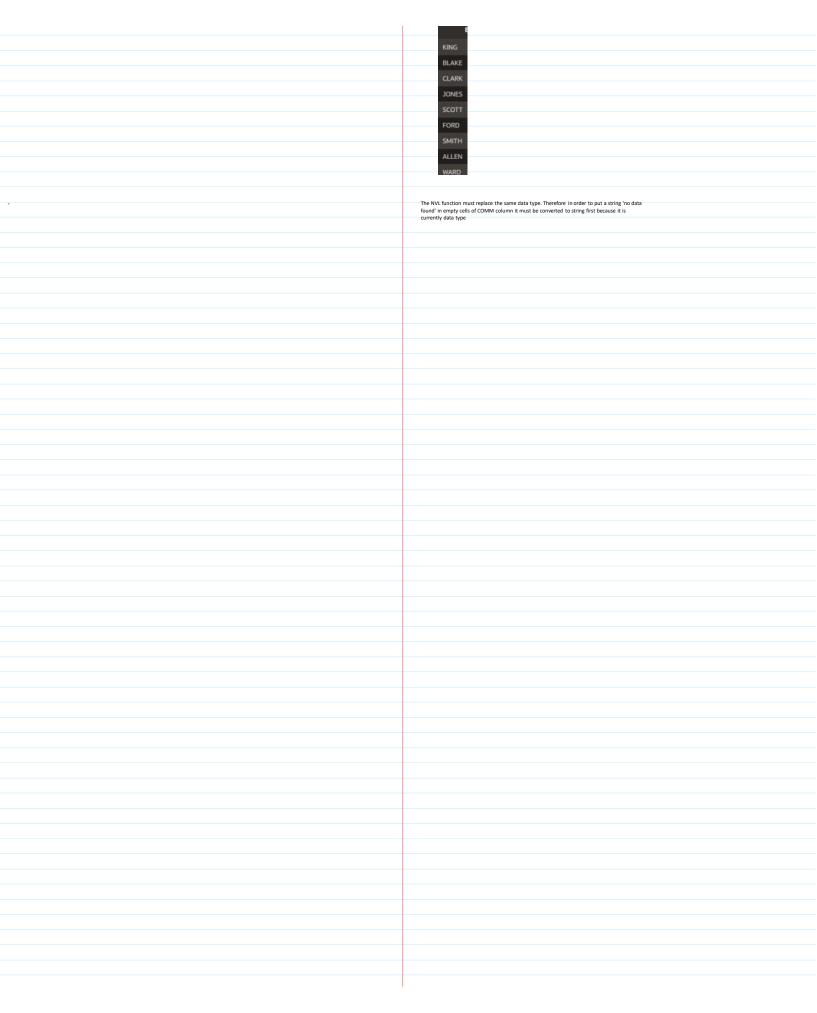


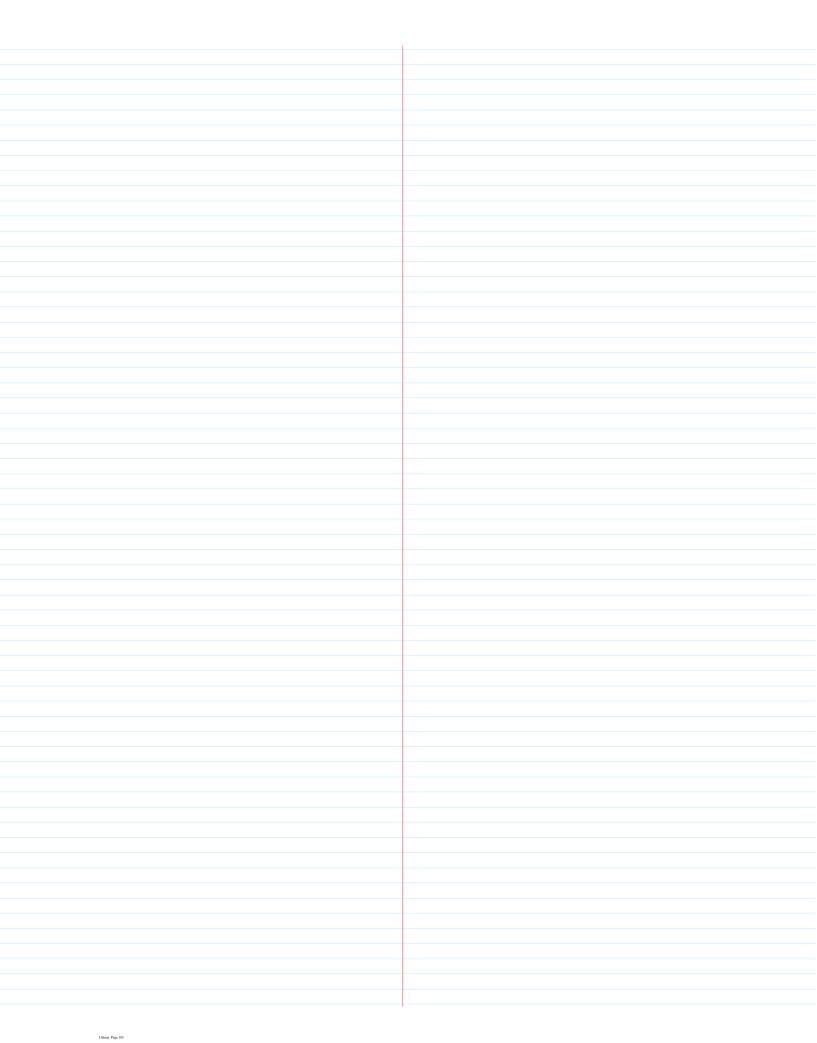


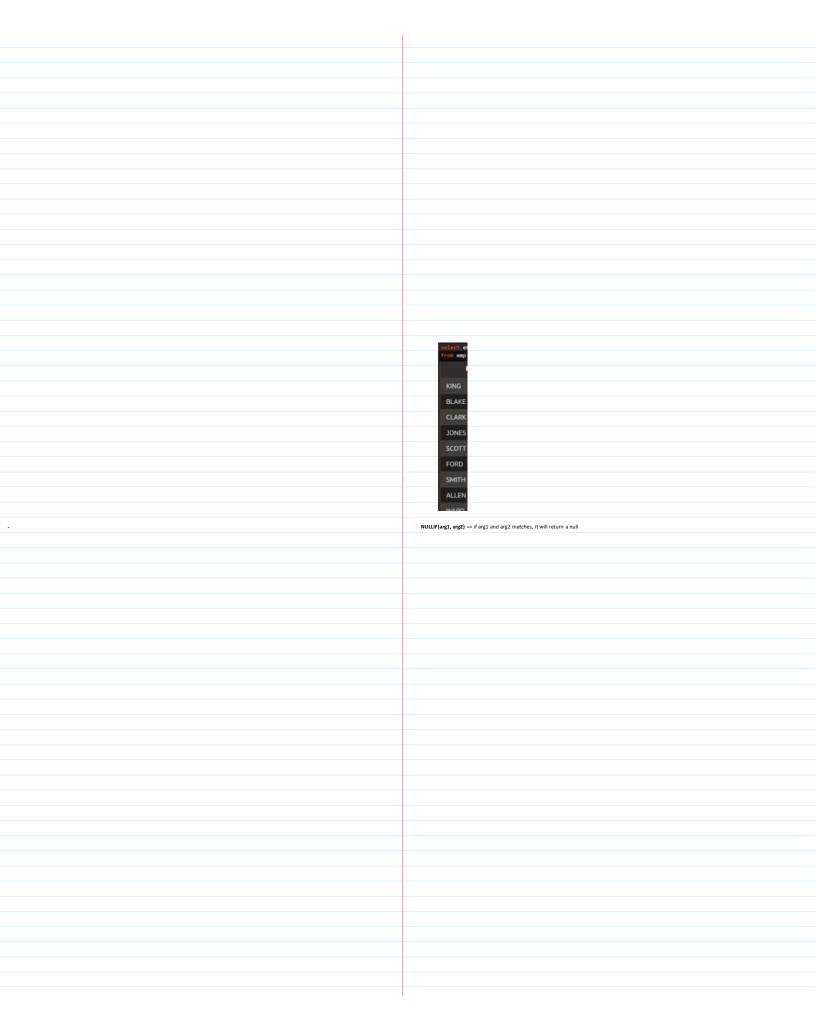


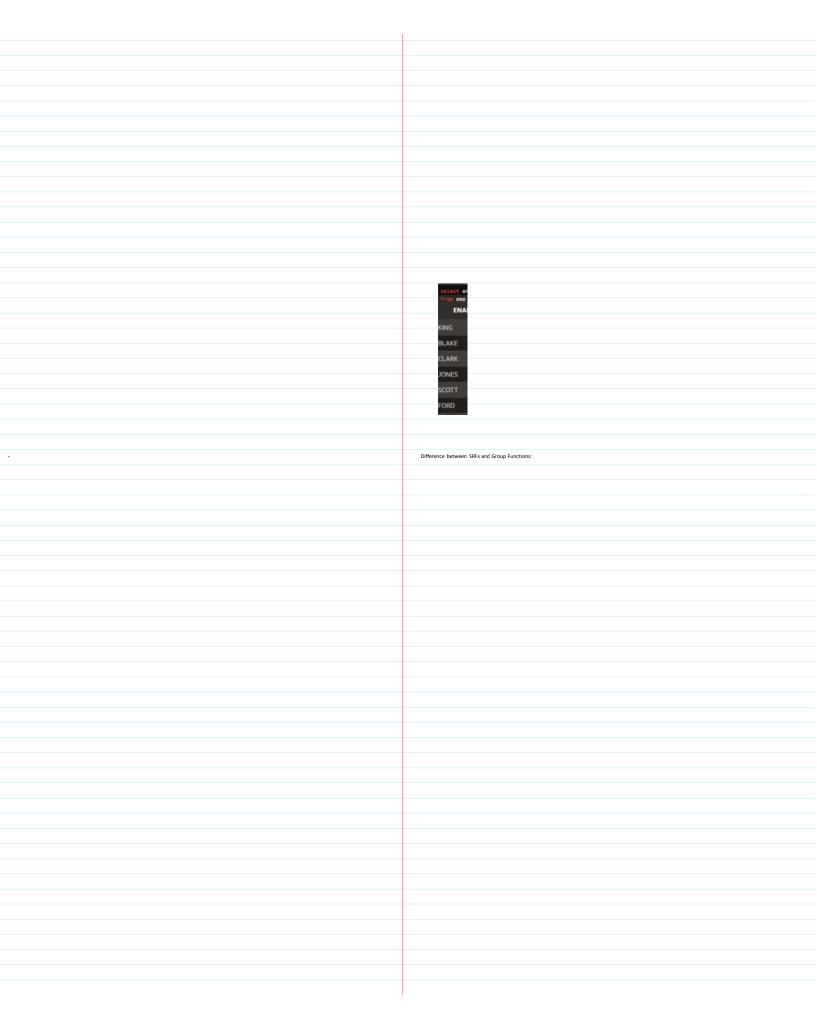
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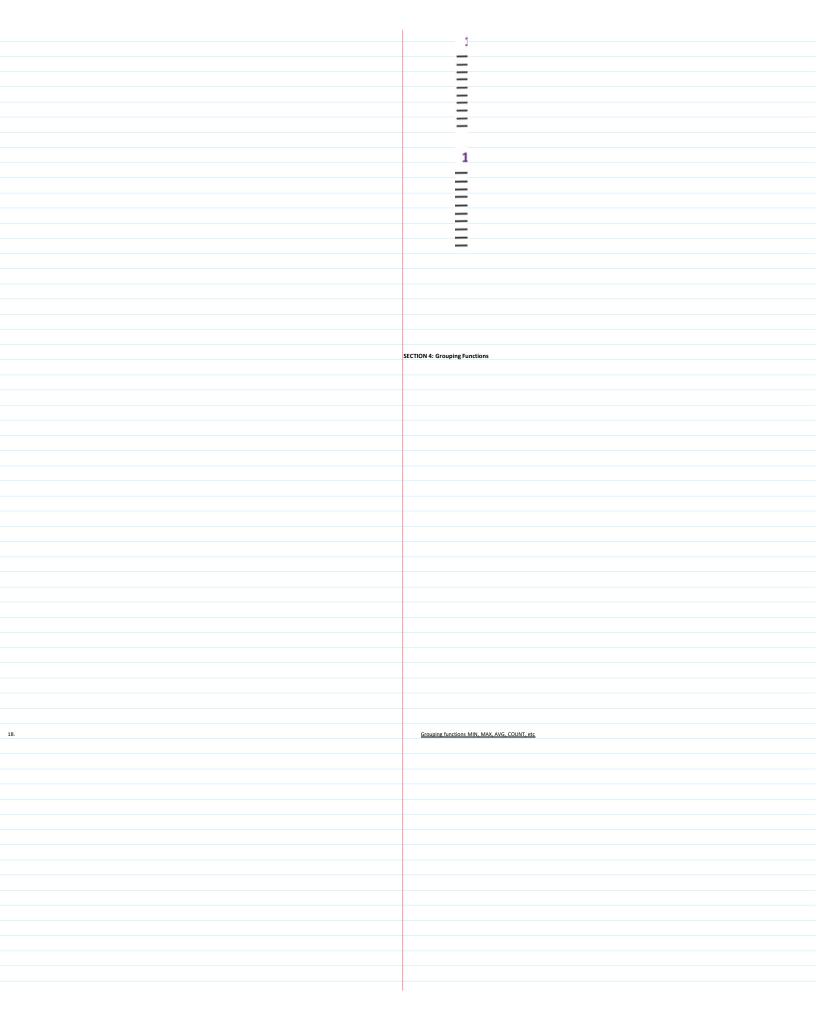


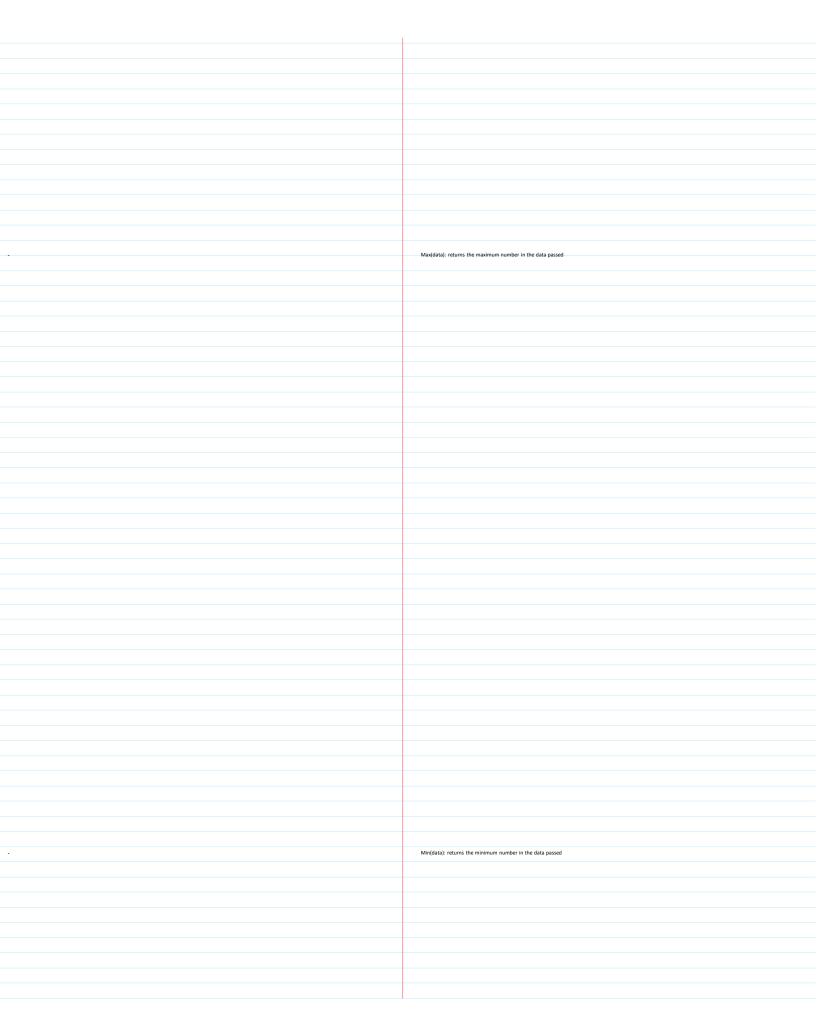


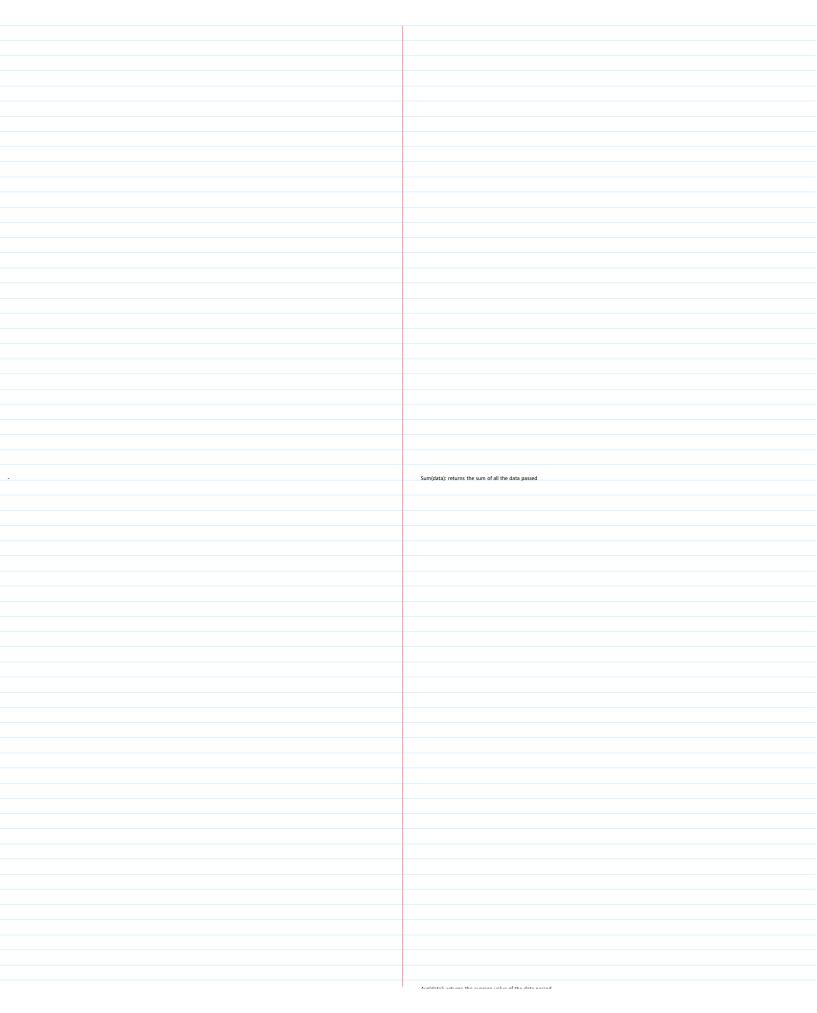




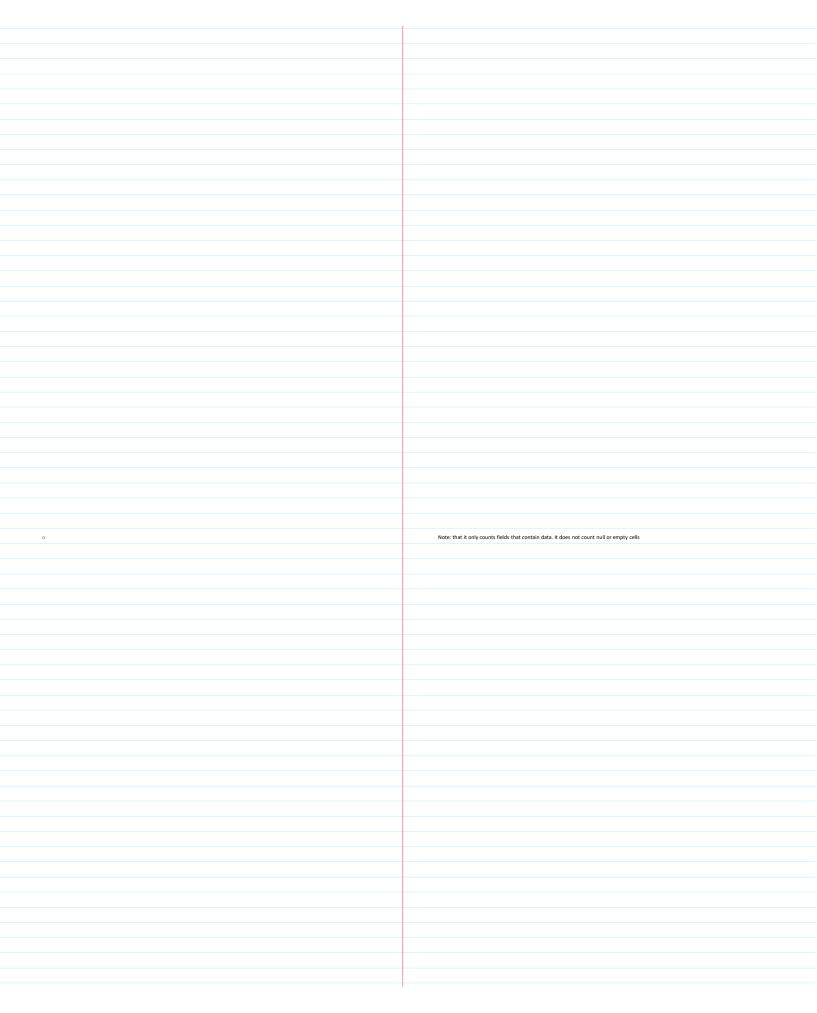


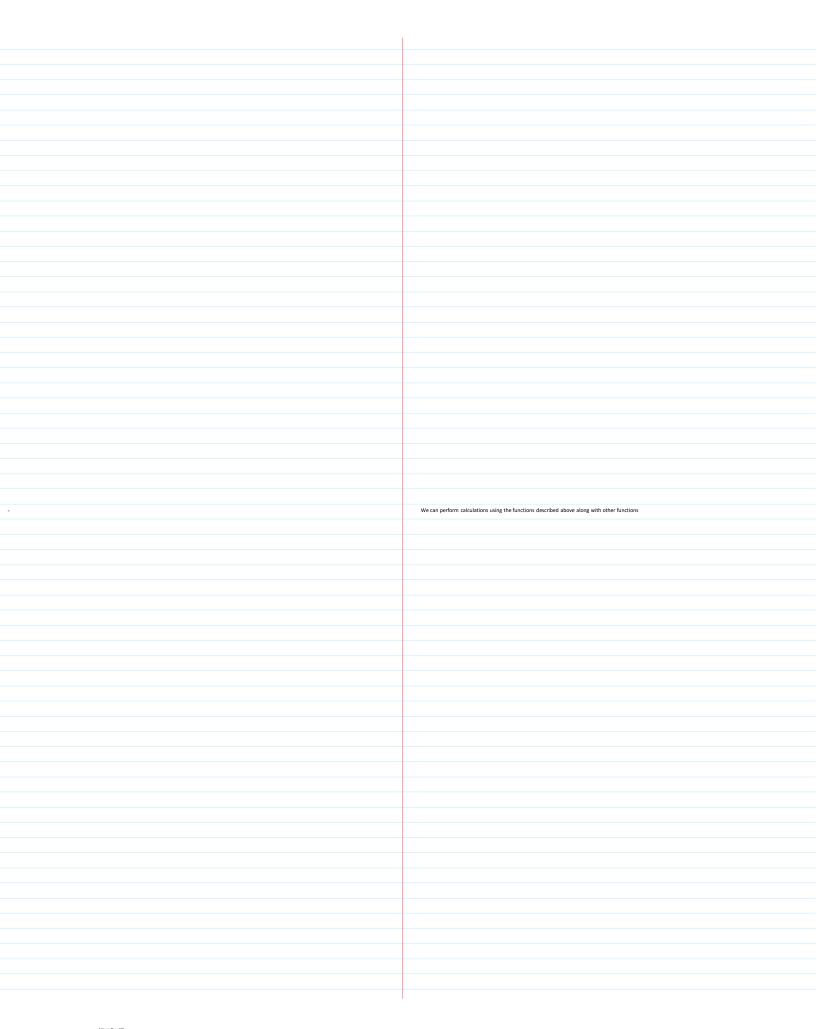


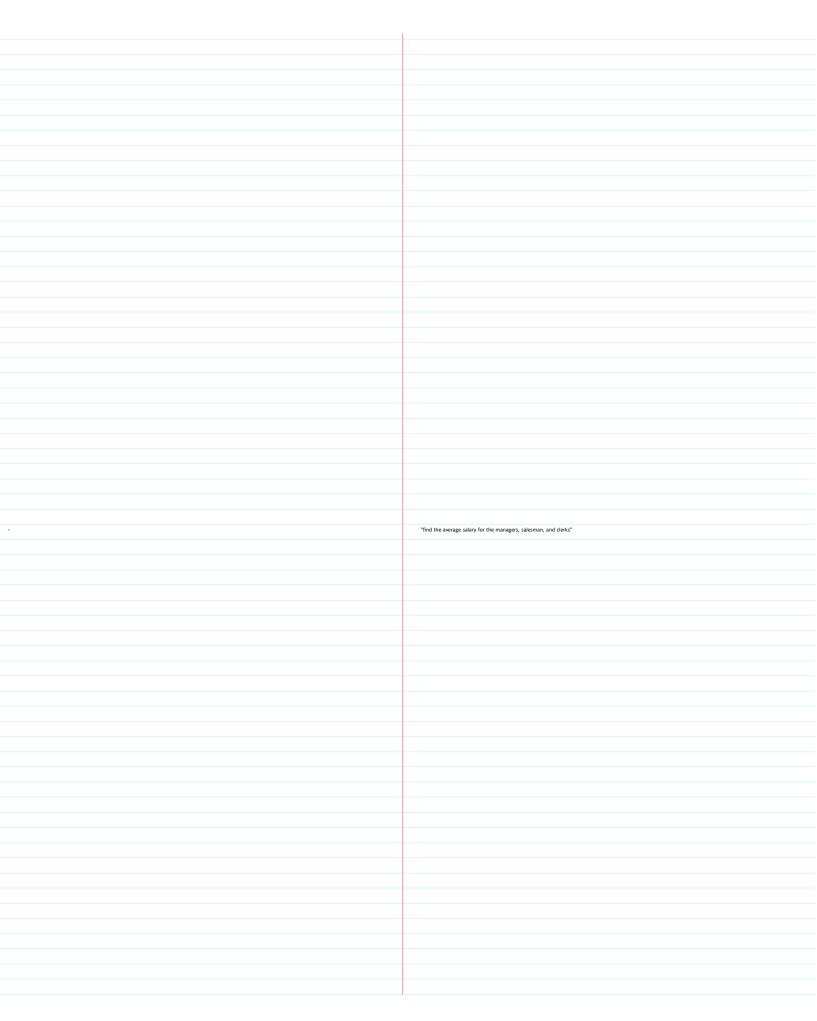




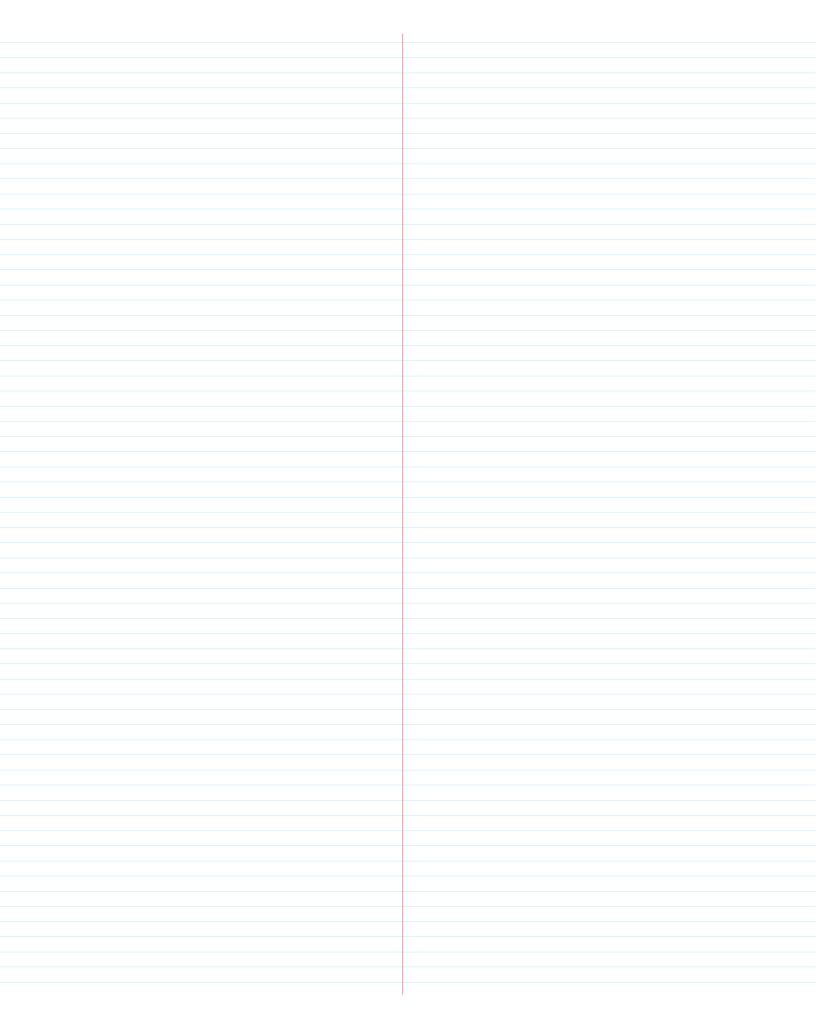
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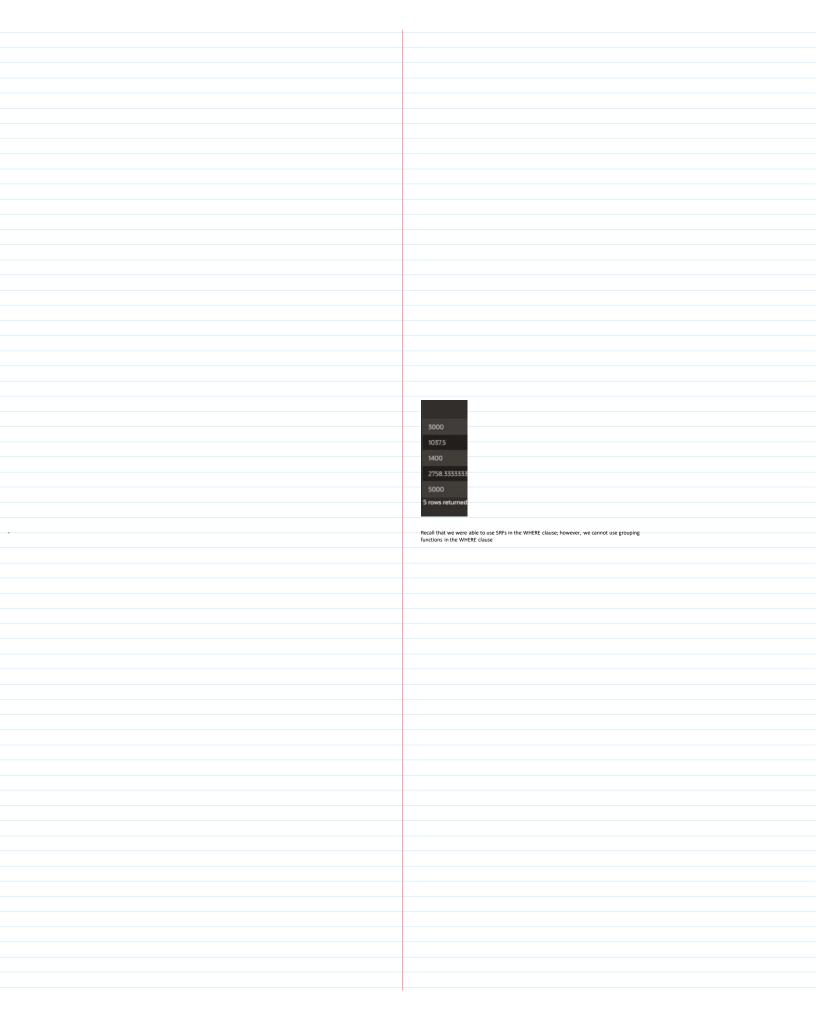


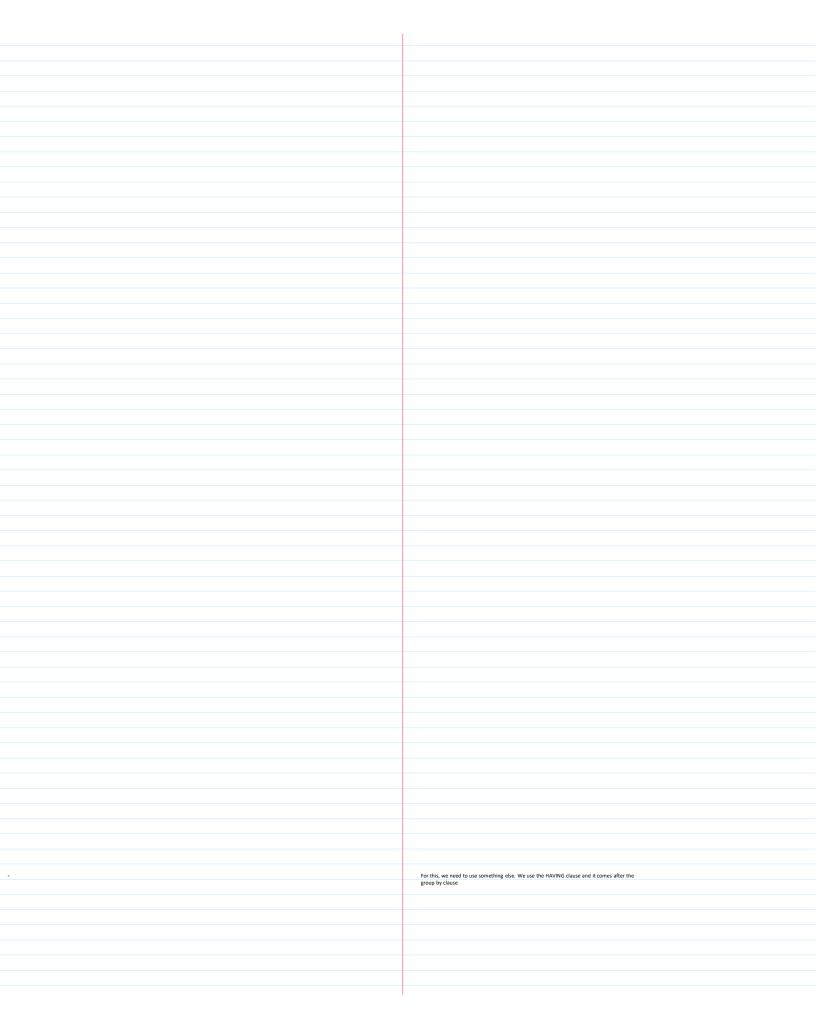




19.	GROUP BY clause and HAVING clause
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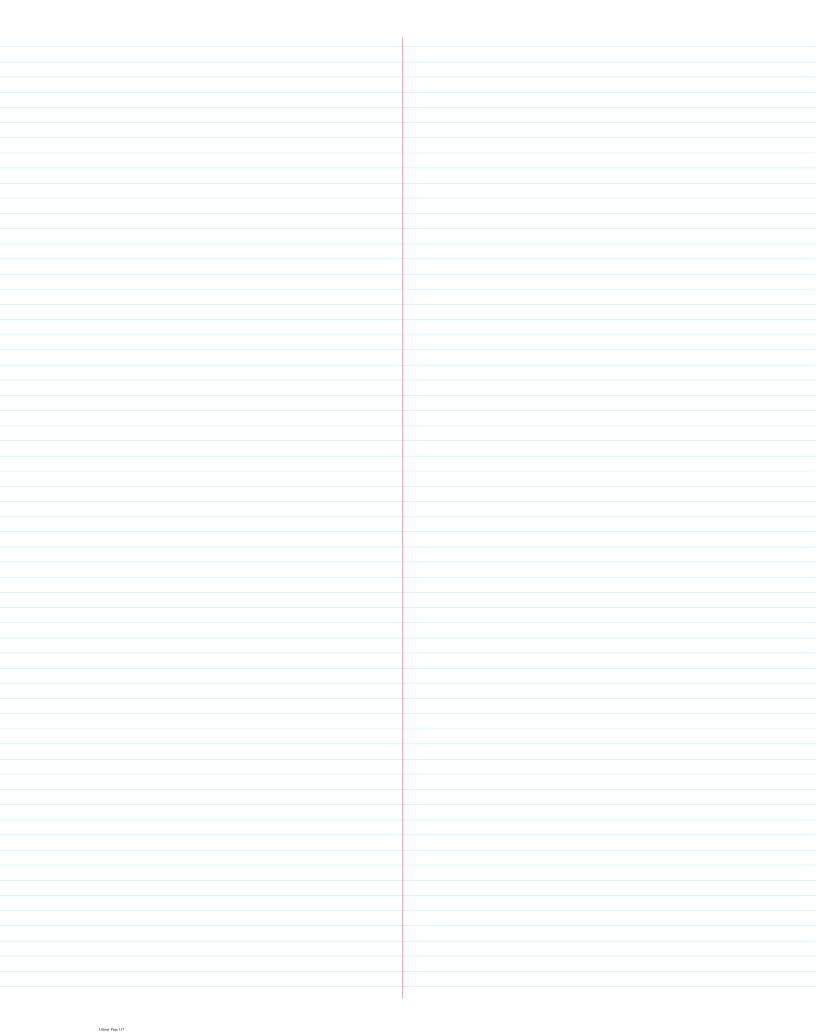


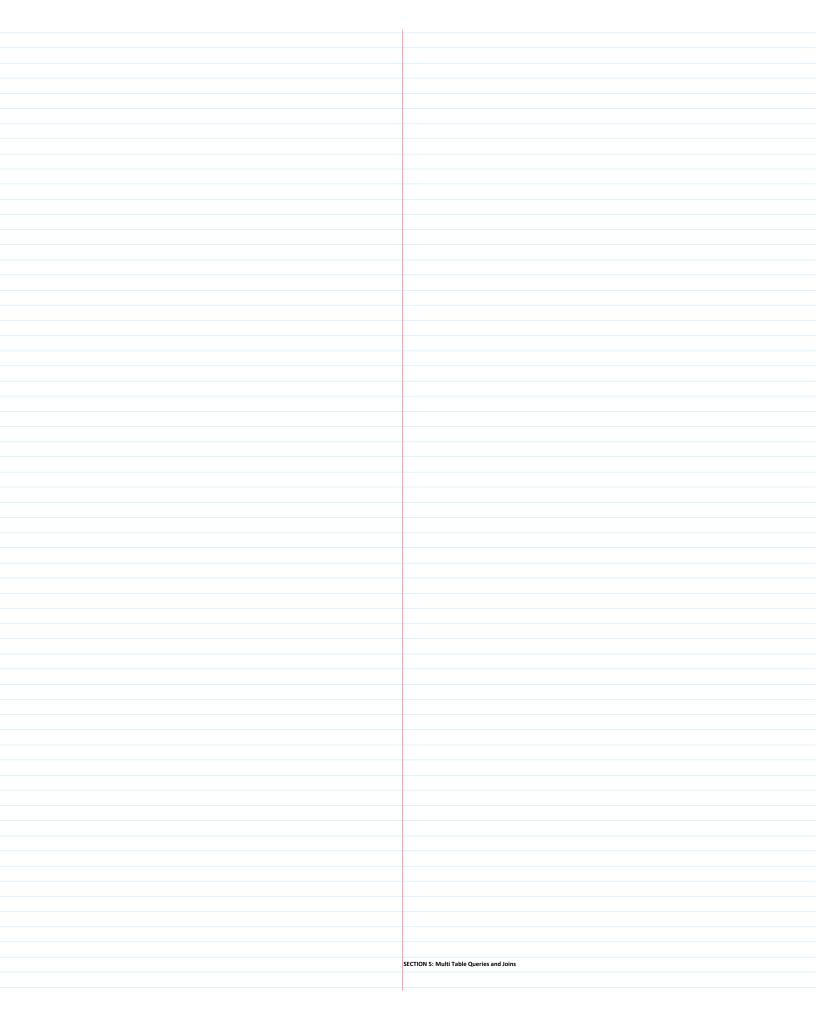


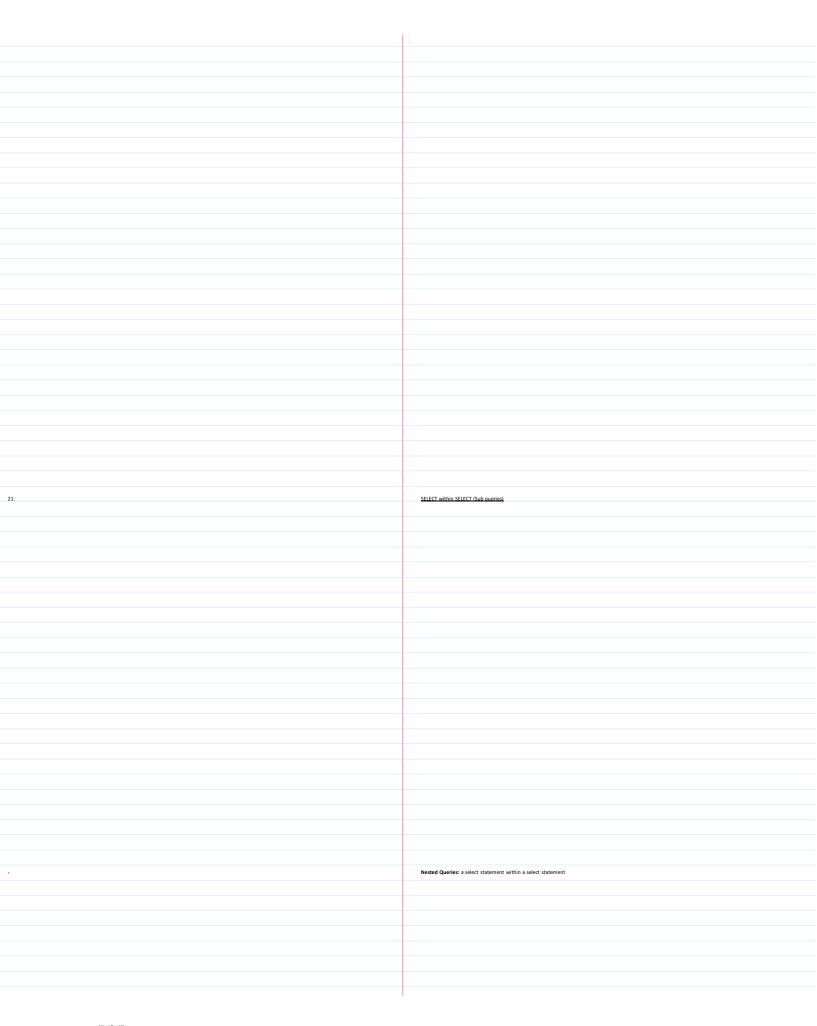


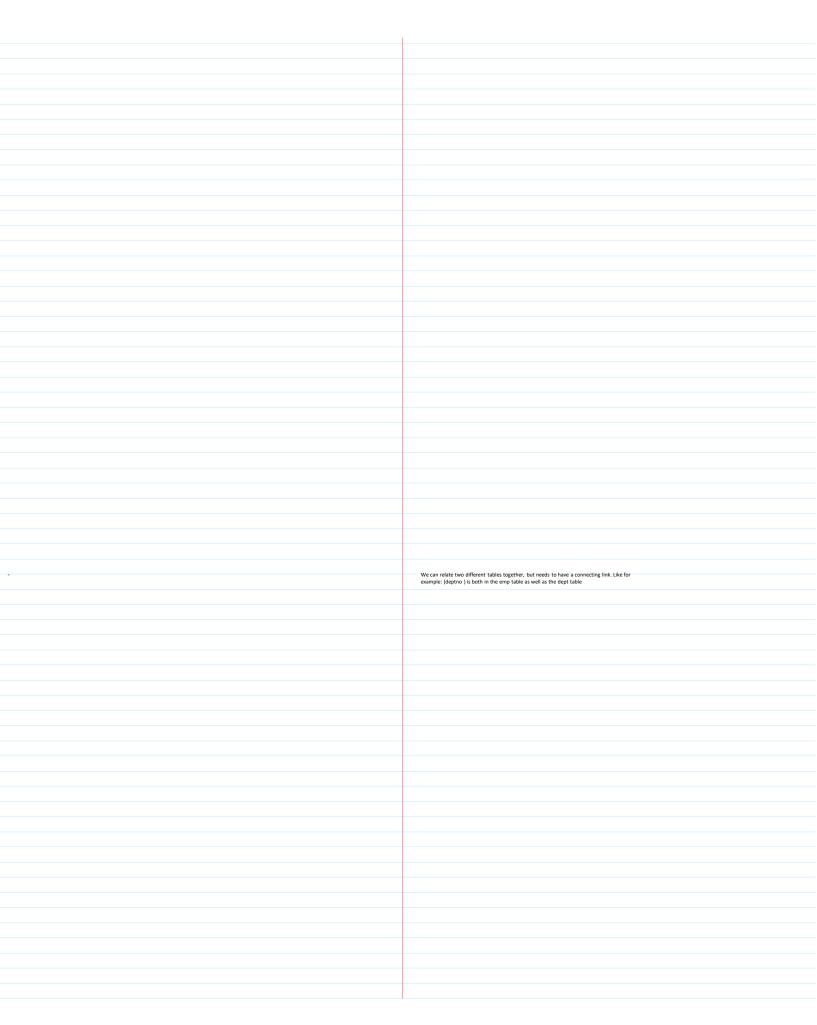
20.	More Practice with the GROUP BY clause

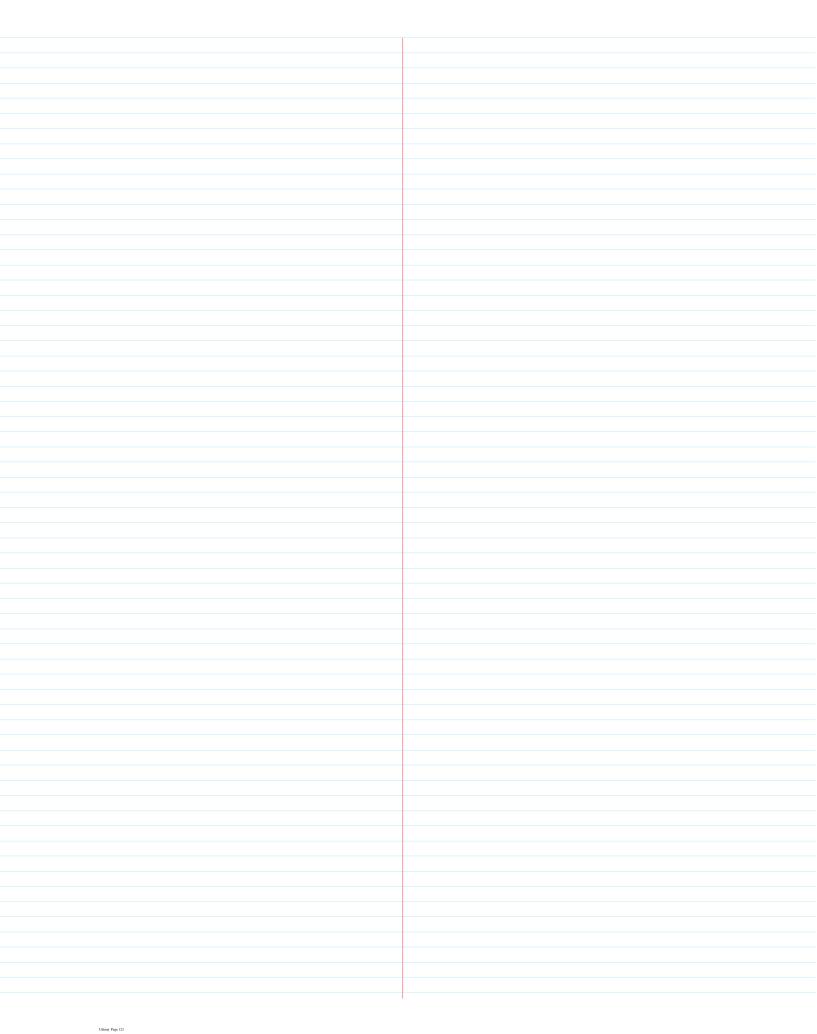
	What is we want to group by more that one column?
0	It will group based on those conditions. "There is 2 clerks in department 20, there are 1 manager in dept 20, there is 1 manager in dept 30, there are 4 salesman in dept 30"
	manager in dept zu, there is 1 manager in dep su, there are 4 salesman in dept su

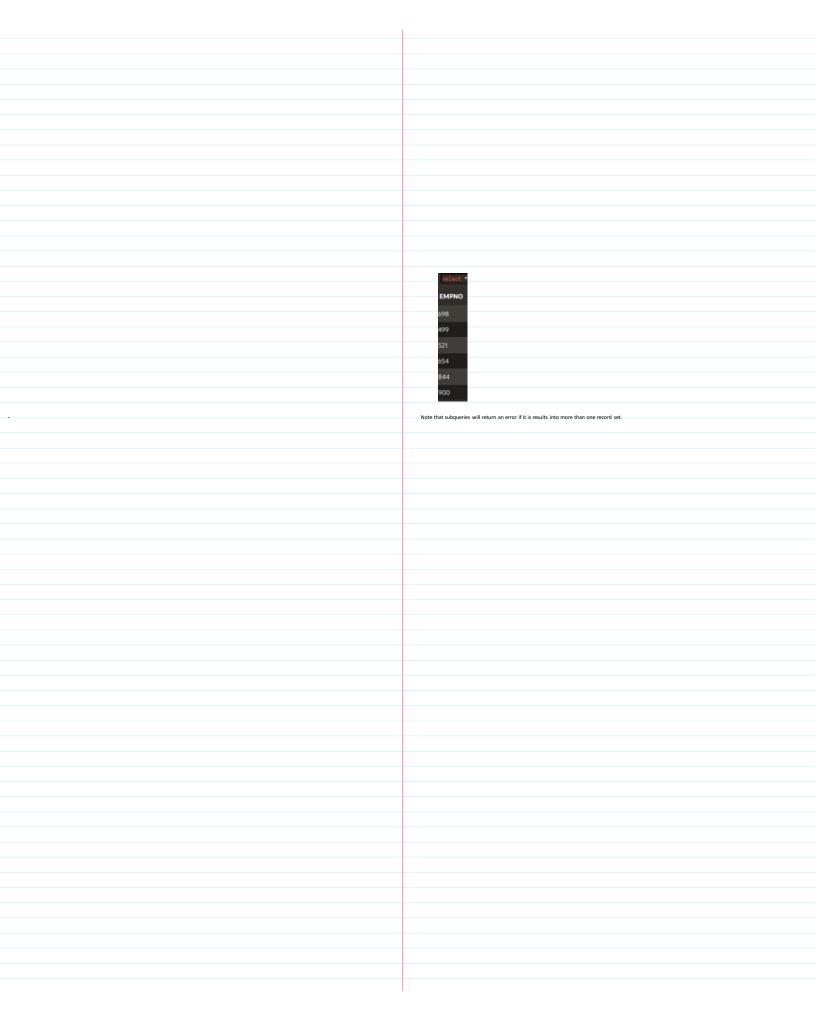


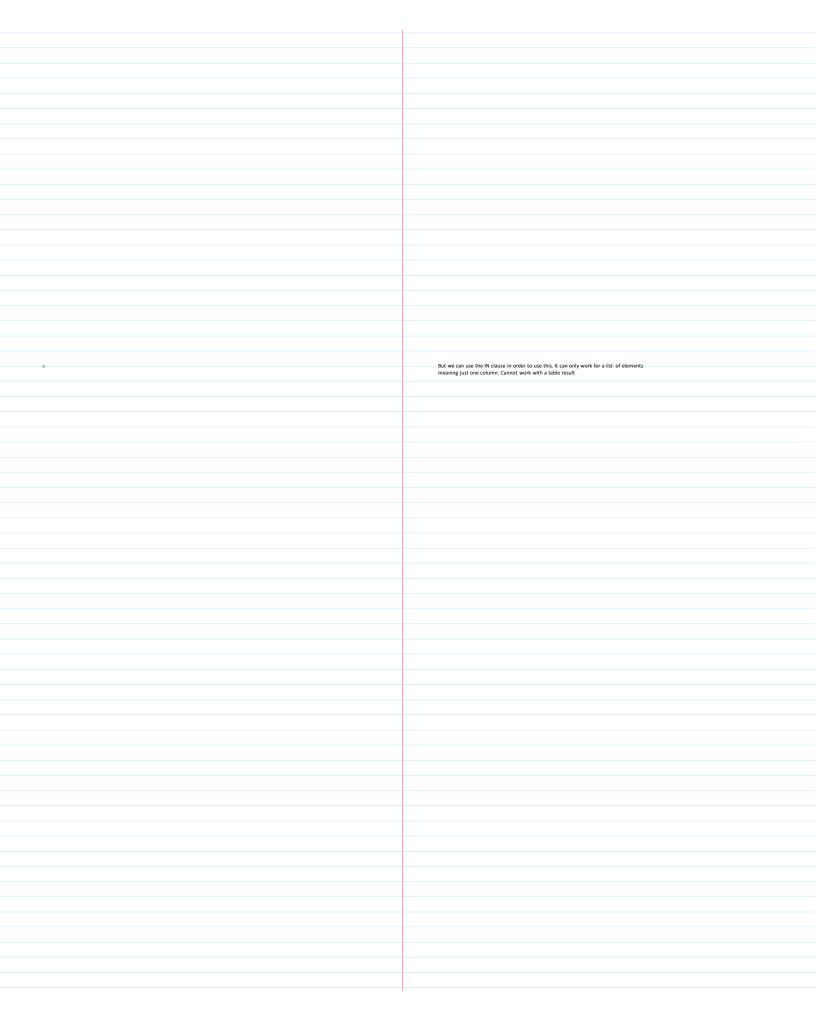


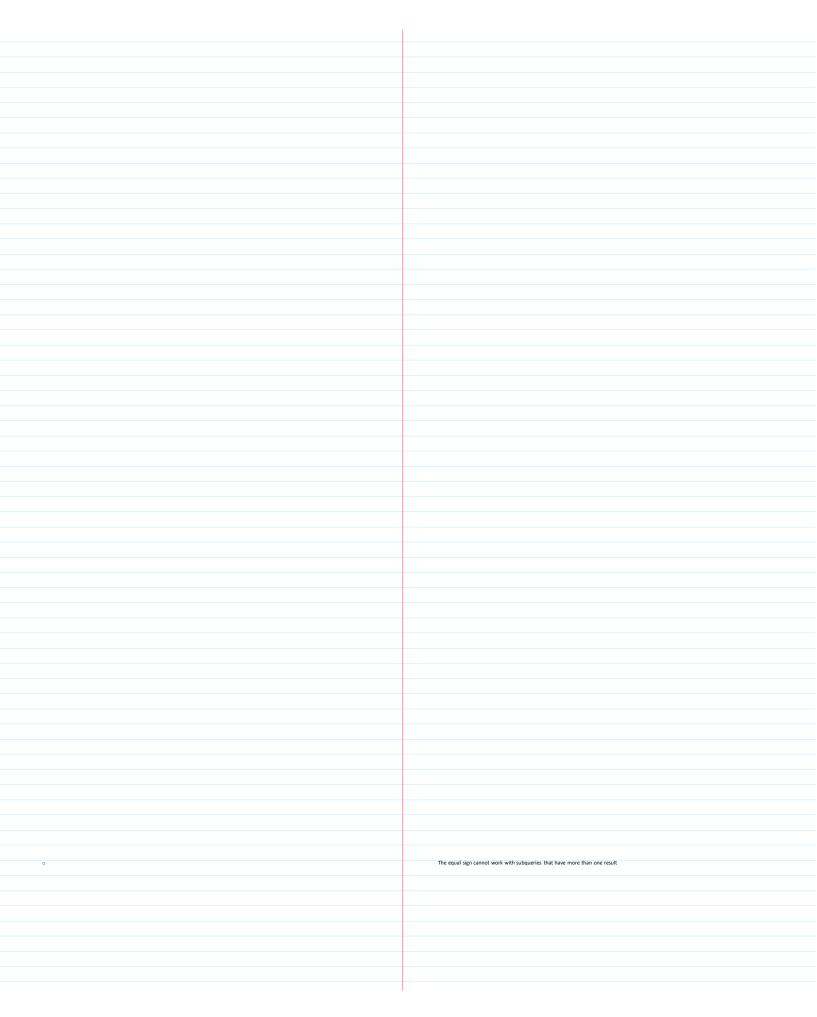






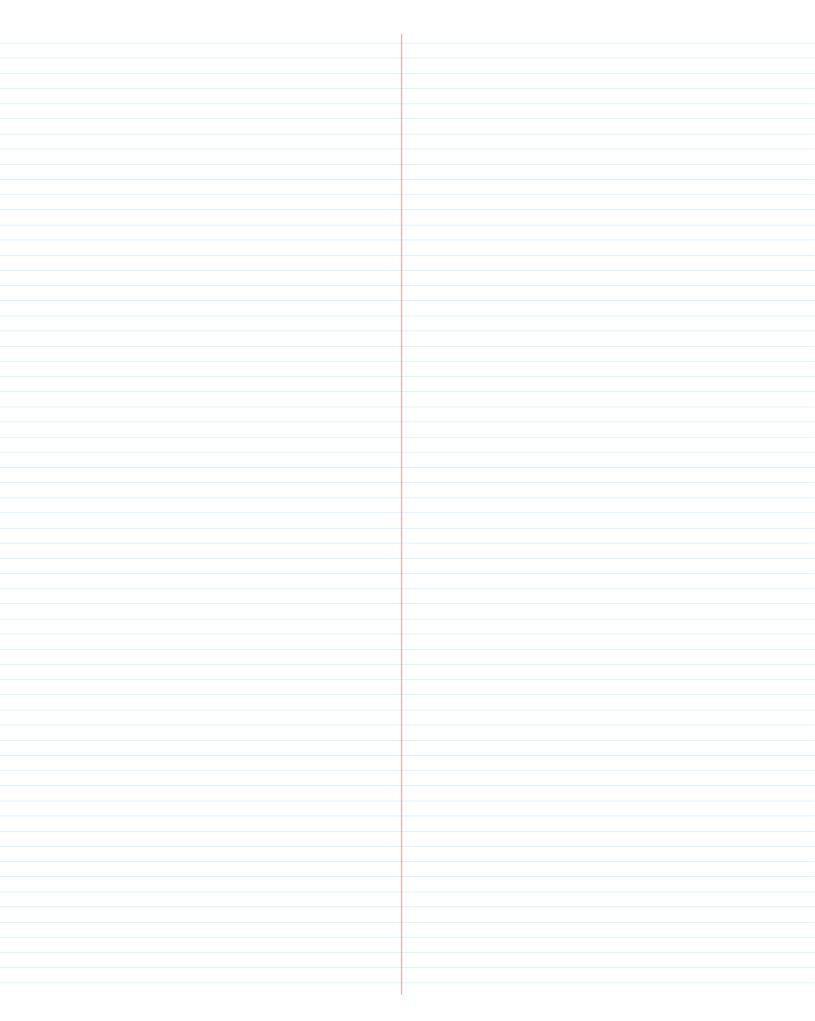


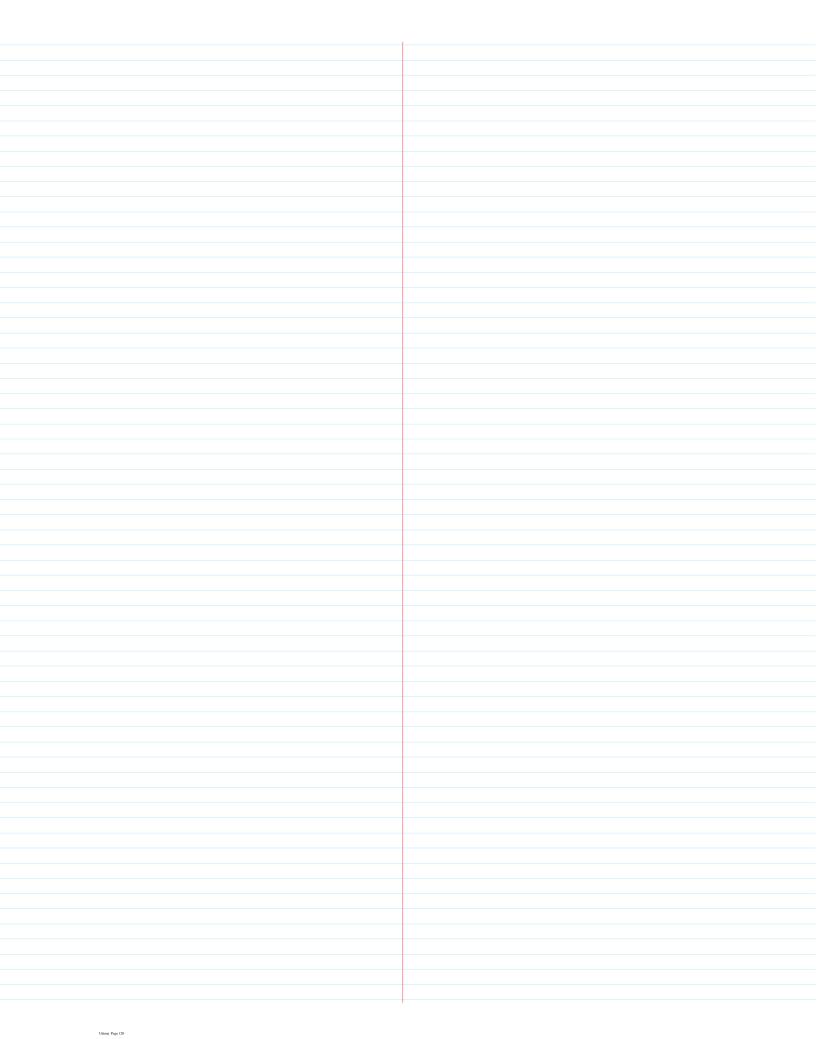


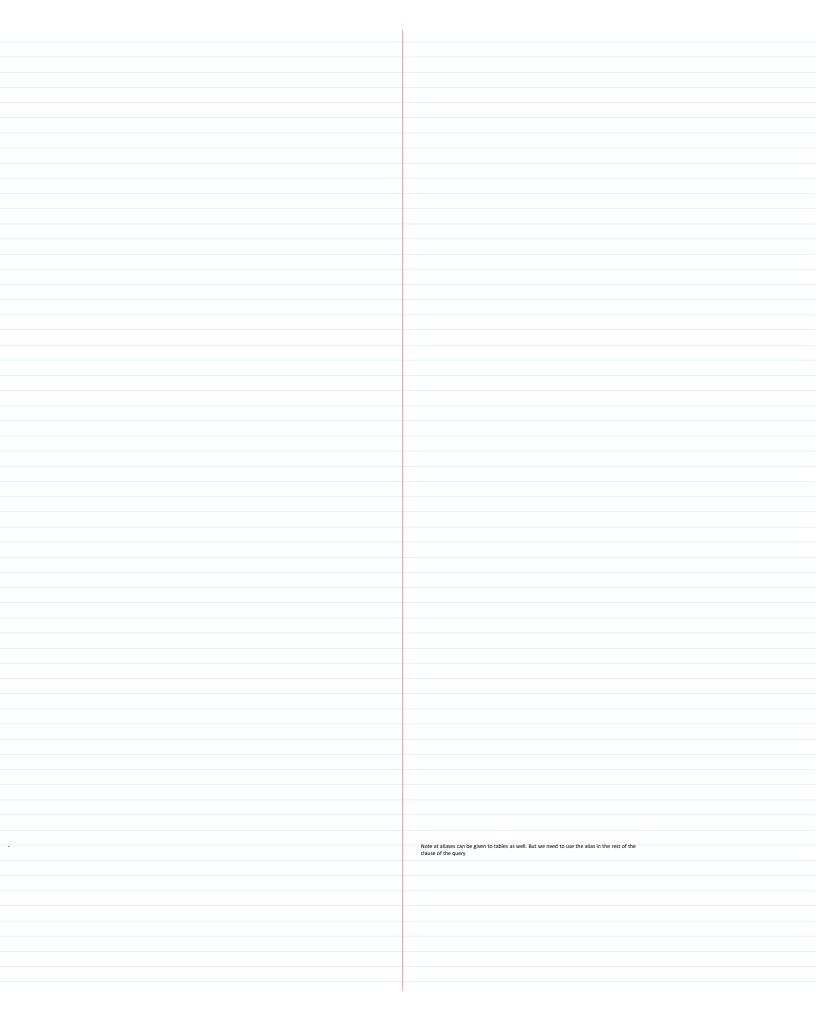


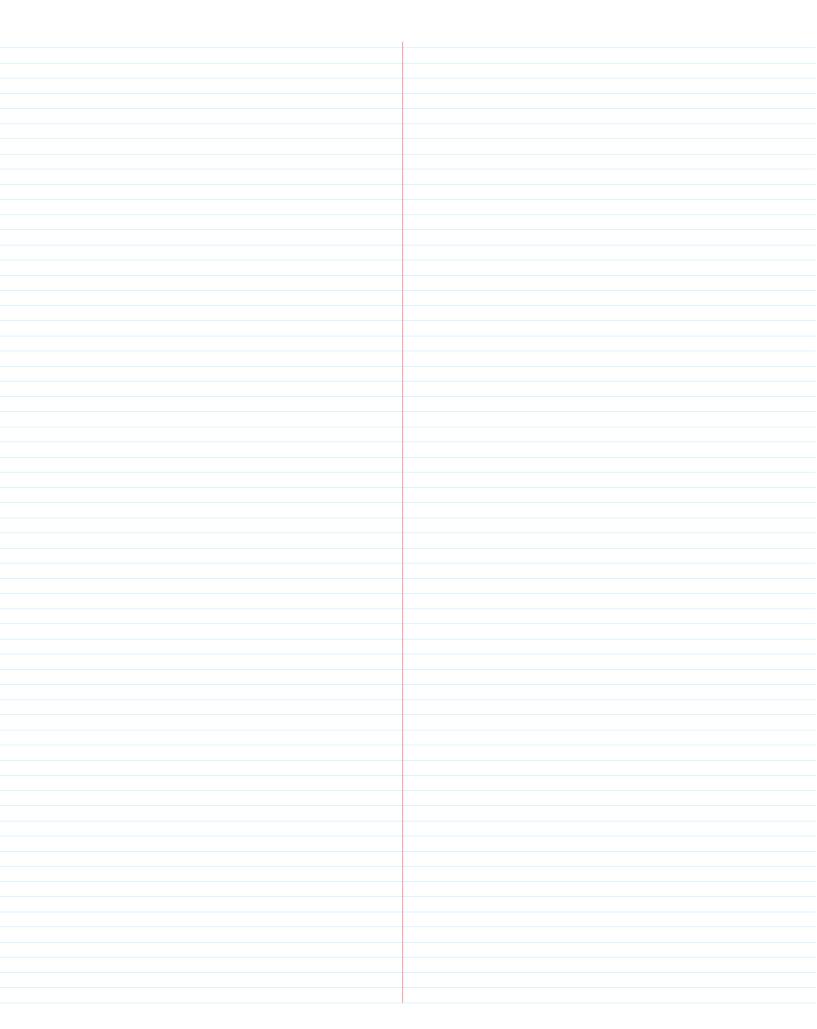
22.	Relating Tables Together using Join

The below example will output a result of records where the deptno from the emp table
The below example will output a result of records where the deptno from the emp table matches the deptno in the dept table. Note that the the dept table has deptno 40 located in boston, but it does not show up in the results because the emp table does hot have a single record in which the deptno is equal to the deptno of boston
record in which the depute is equal to the depute of ideator.

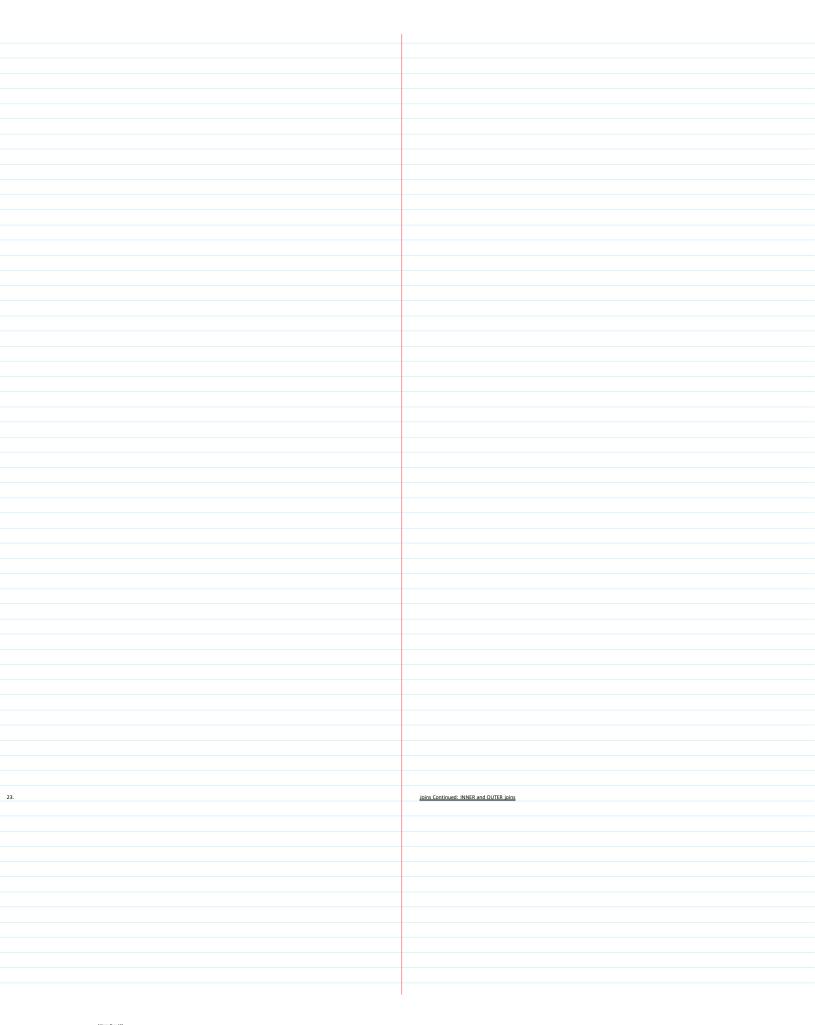


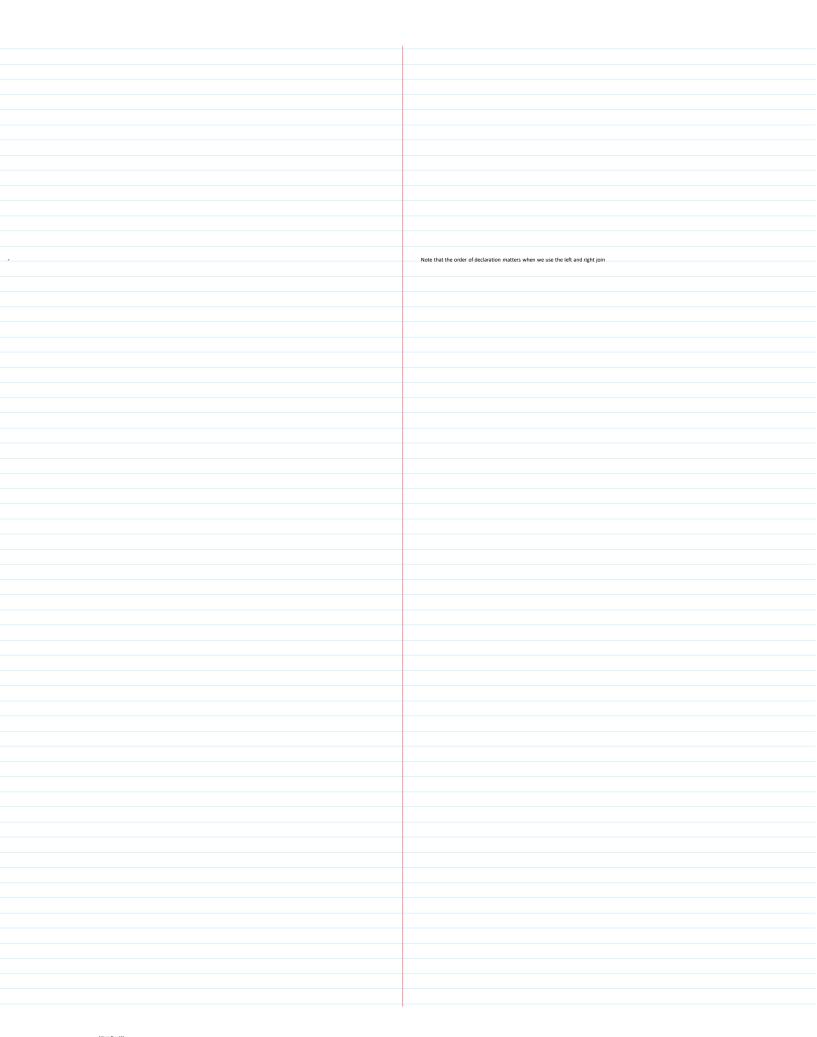


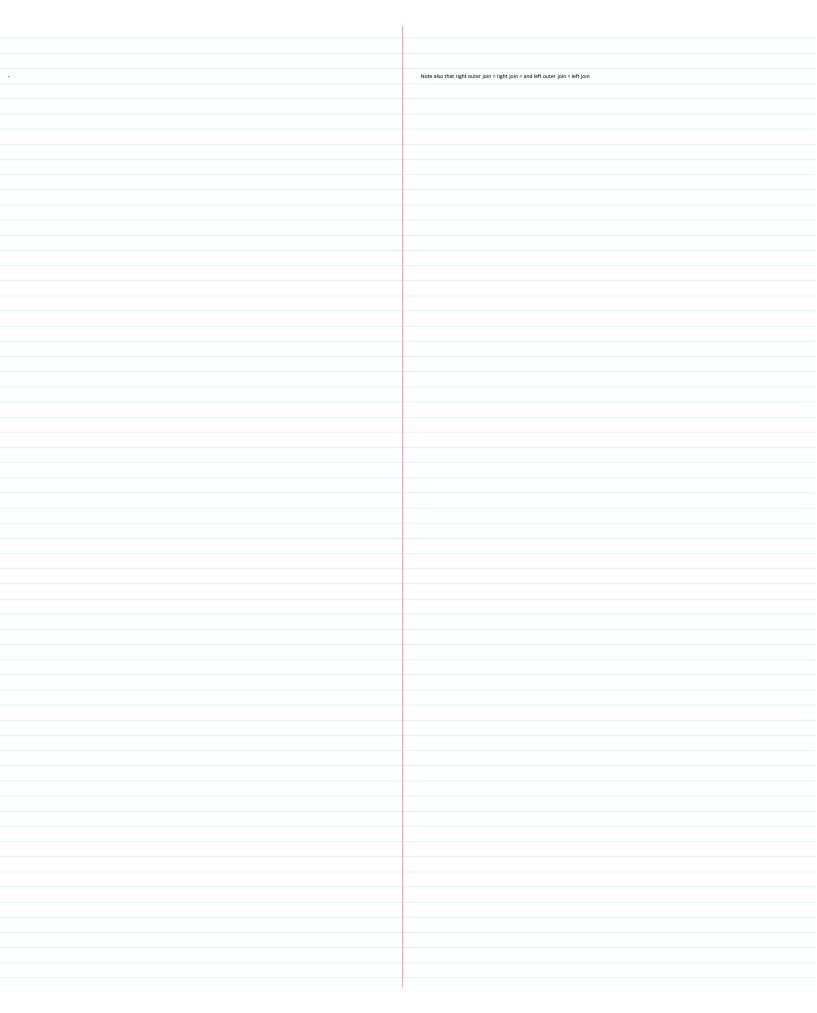


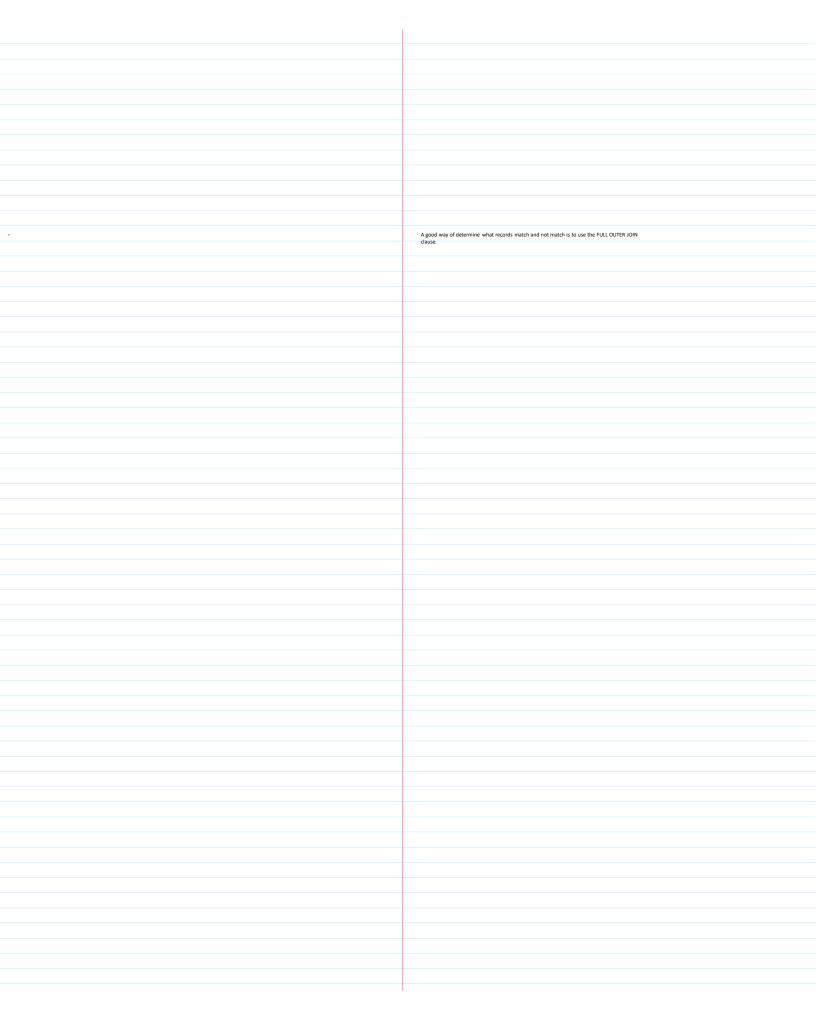


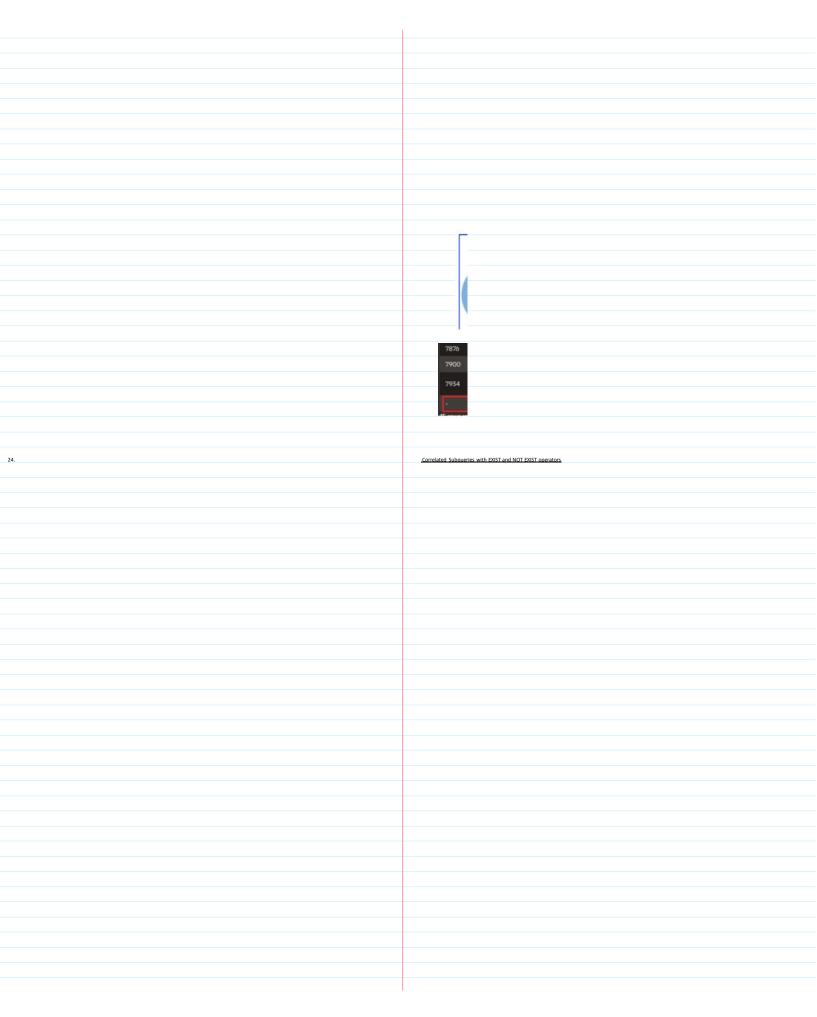
	We can also include subqueries in the form clause which allows for more flexibility in terms of
	what data we want to take a look at from the other table
·	

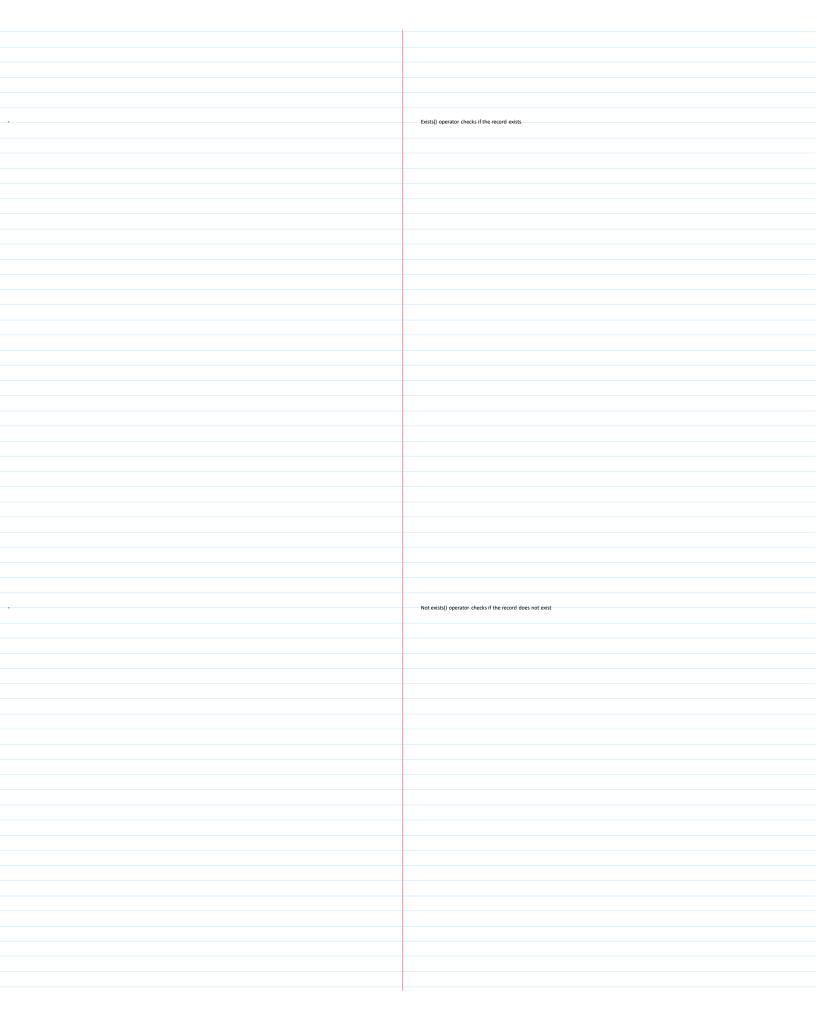


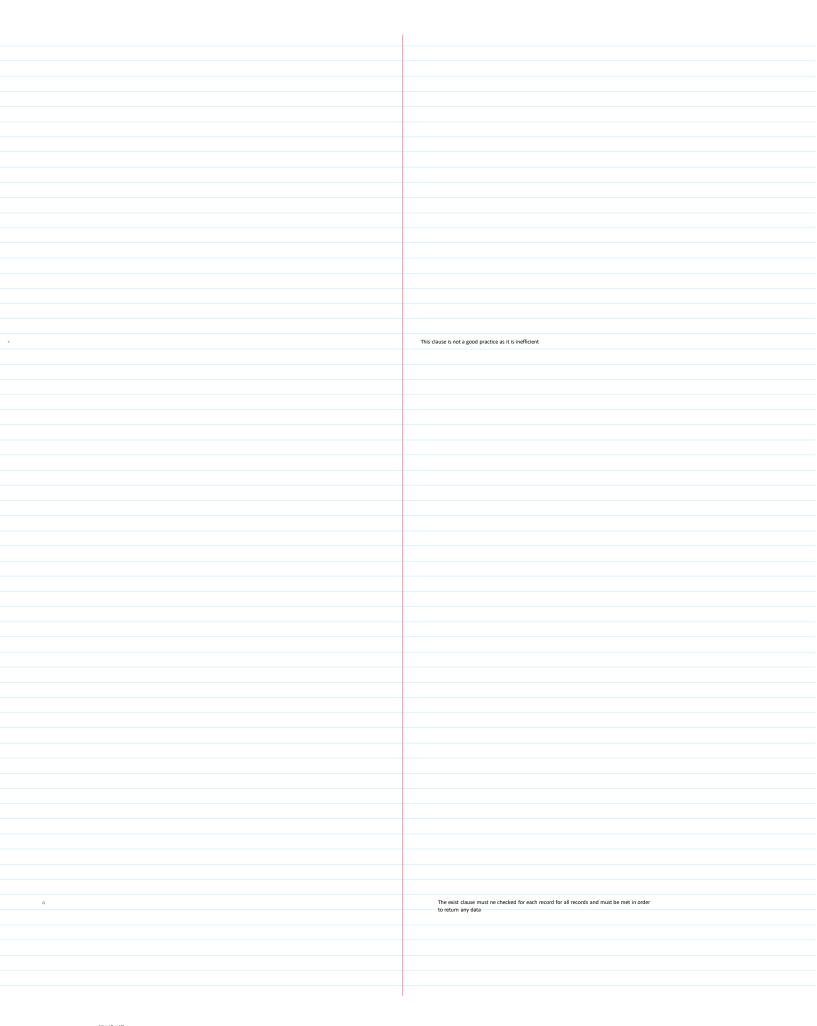


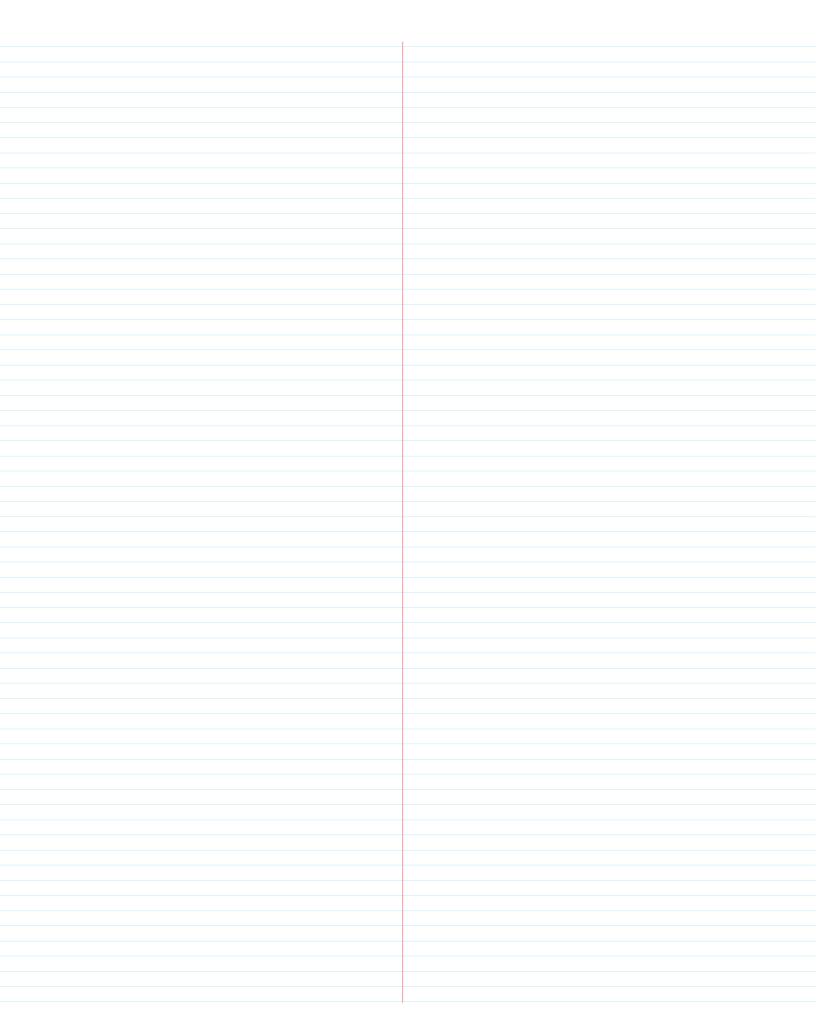


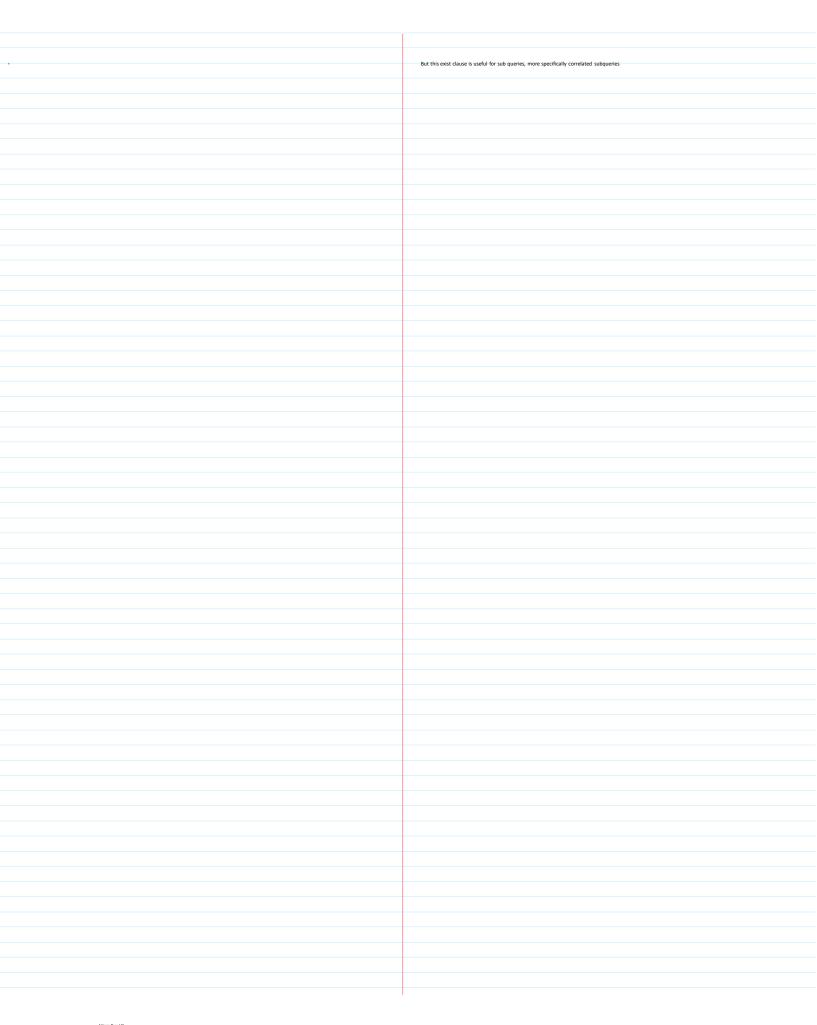


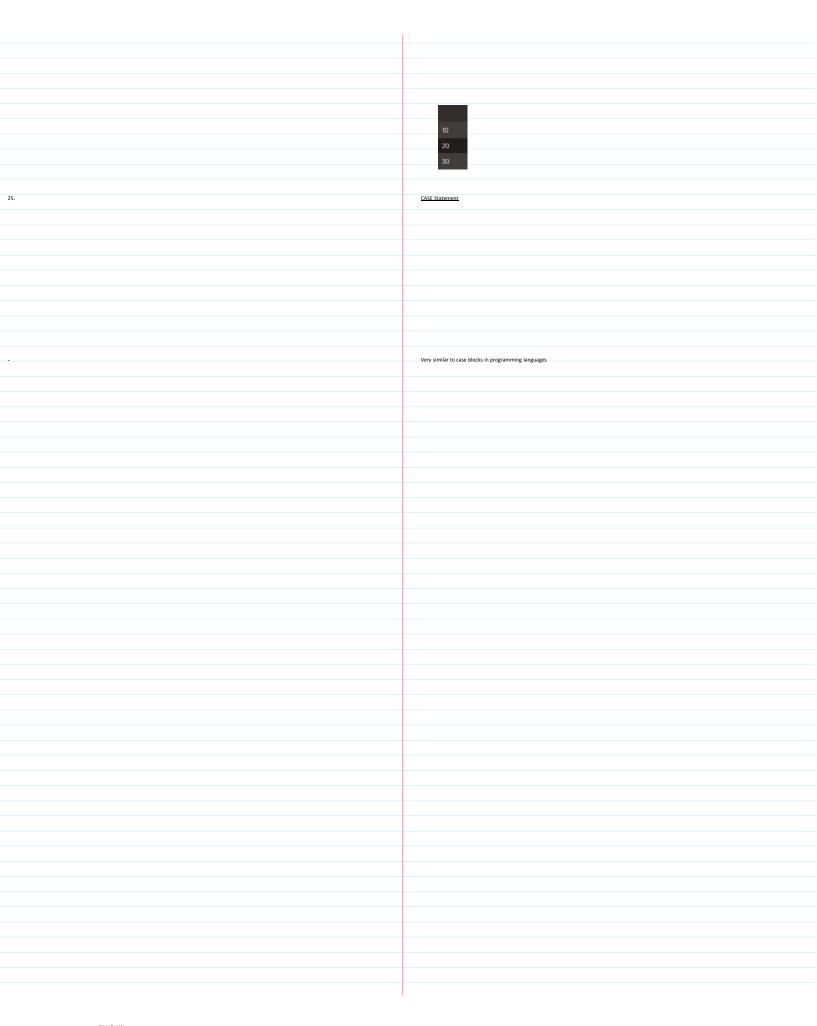


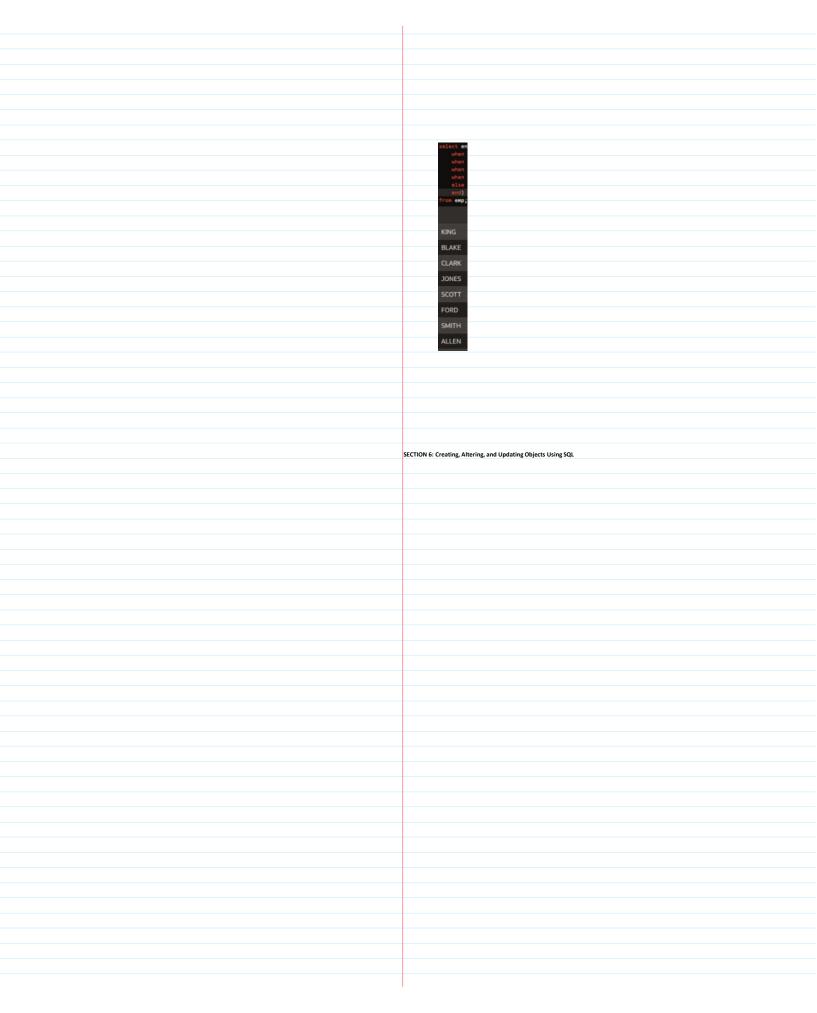




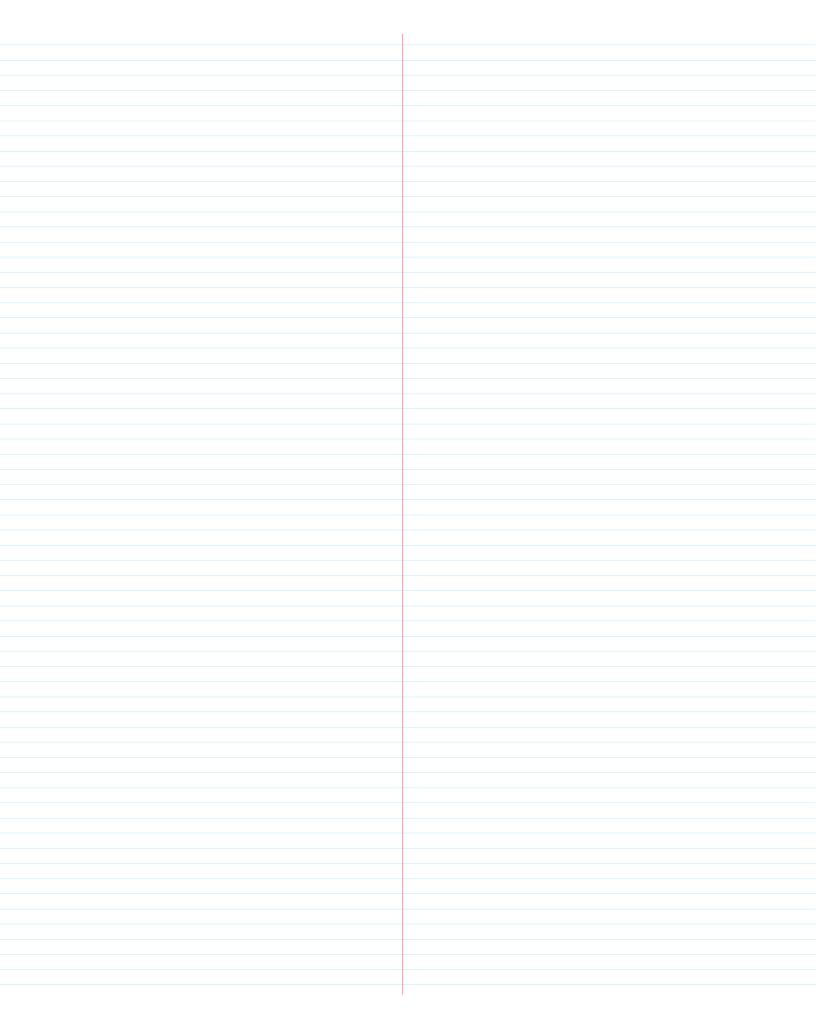


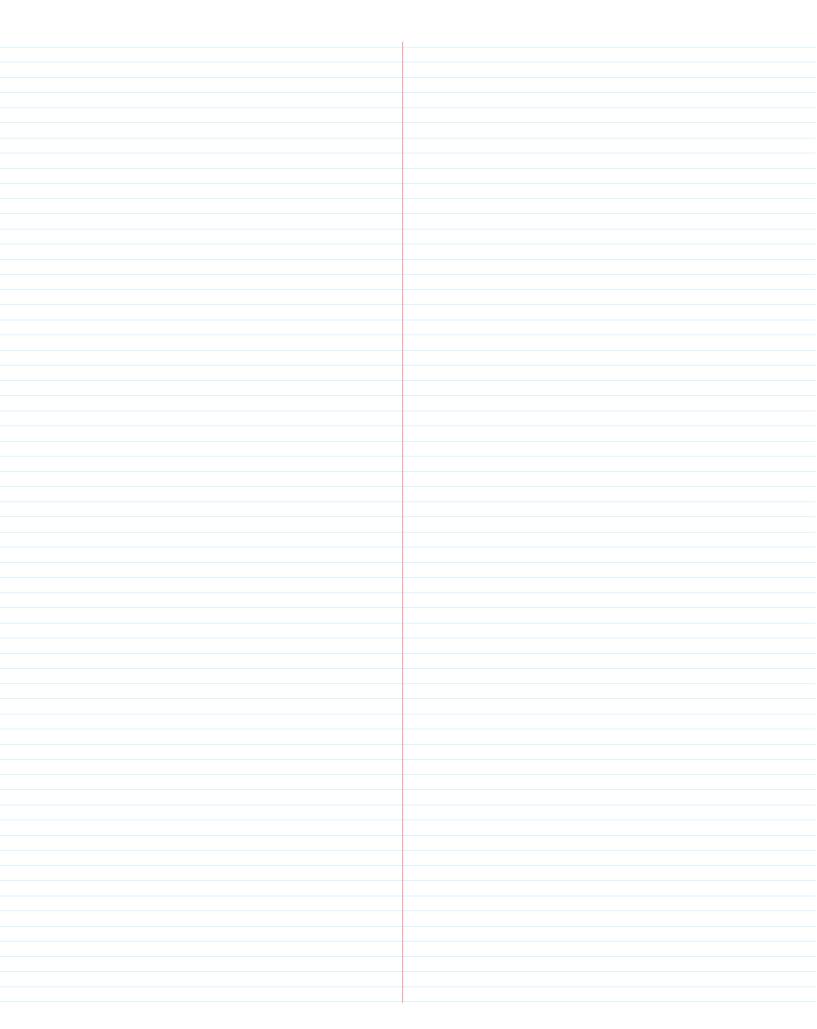




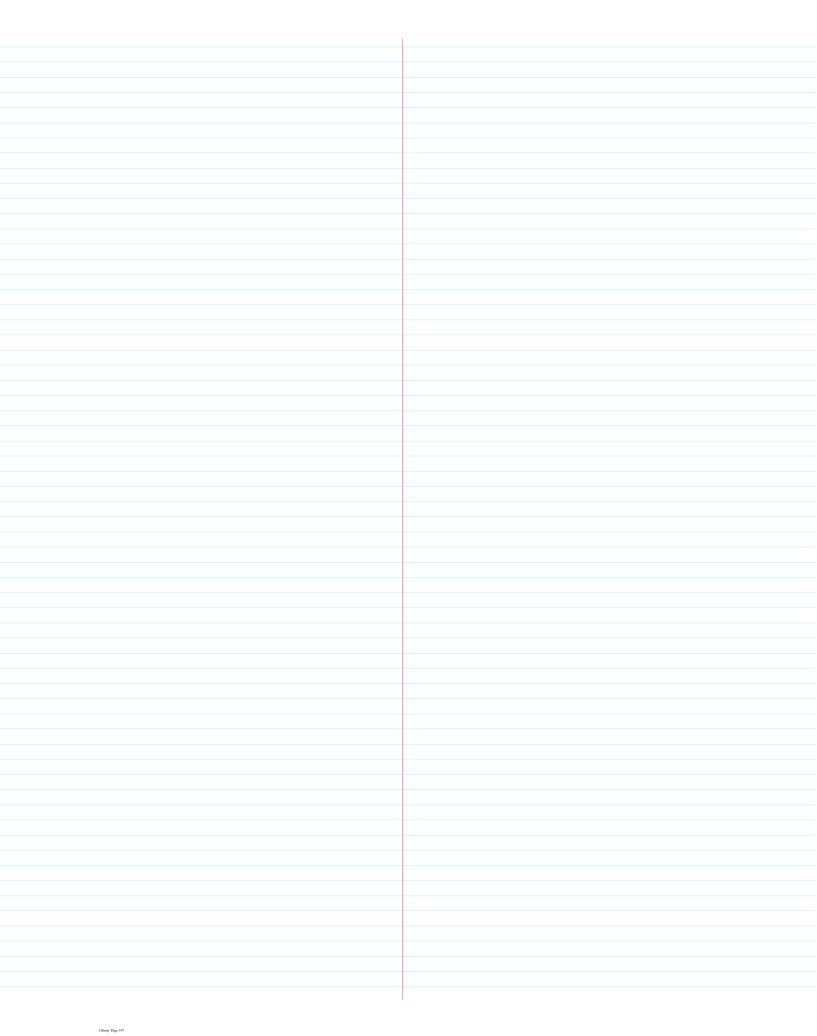


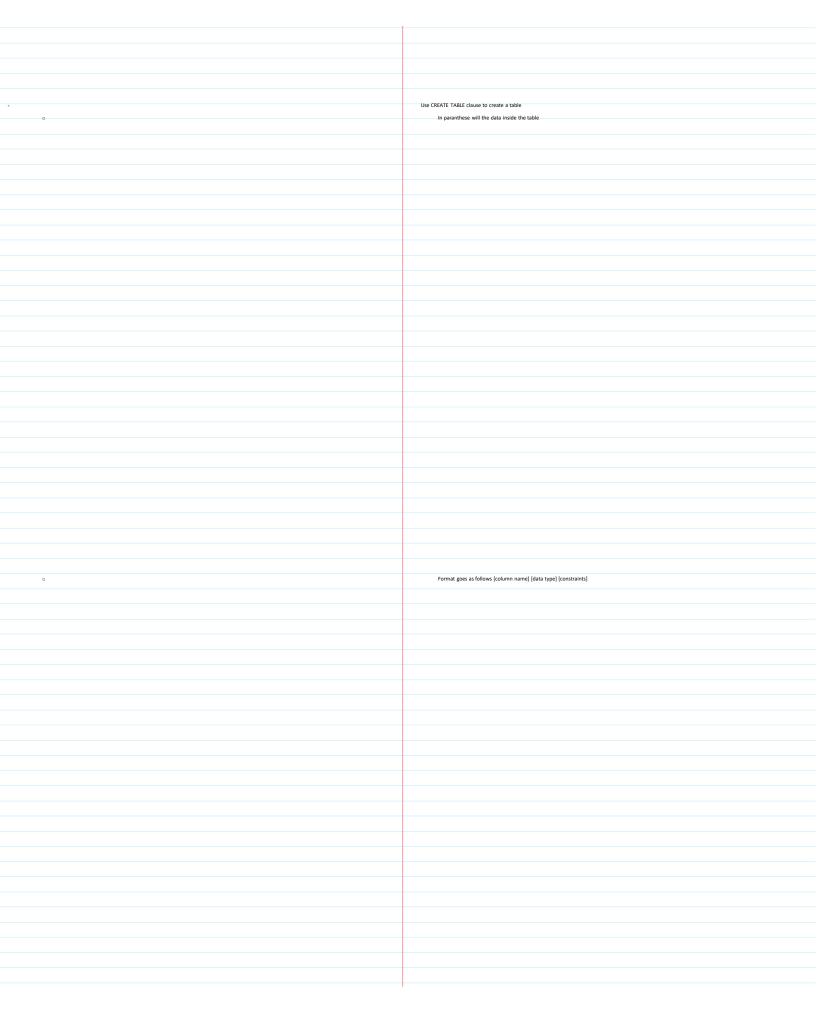
26.	Creating Your Own Tables & Design Considerations
	STANKE TOOLOTTI MIRK & OLEAN SOISSECHIONA
	It is important for each record to have a unique identifier that cannot be empty and cannot be
	It is important for each record to have a unique identifier that cannot be empty and cannot be repeated, such as an employee ID or a social security number. This is usually referred to as a primary key columns. This must be well thought out before it is assigned and used in the table

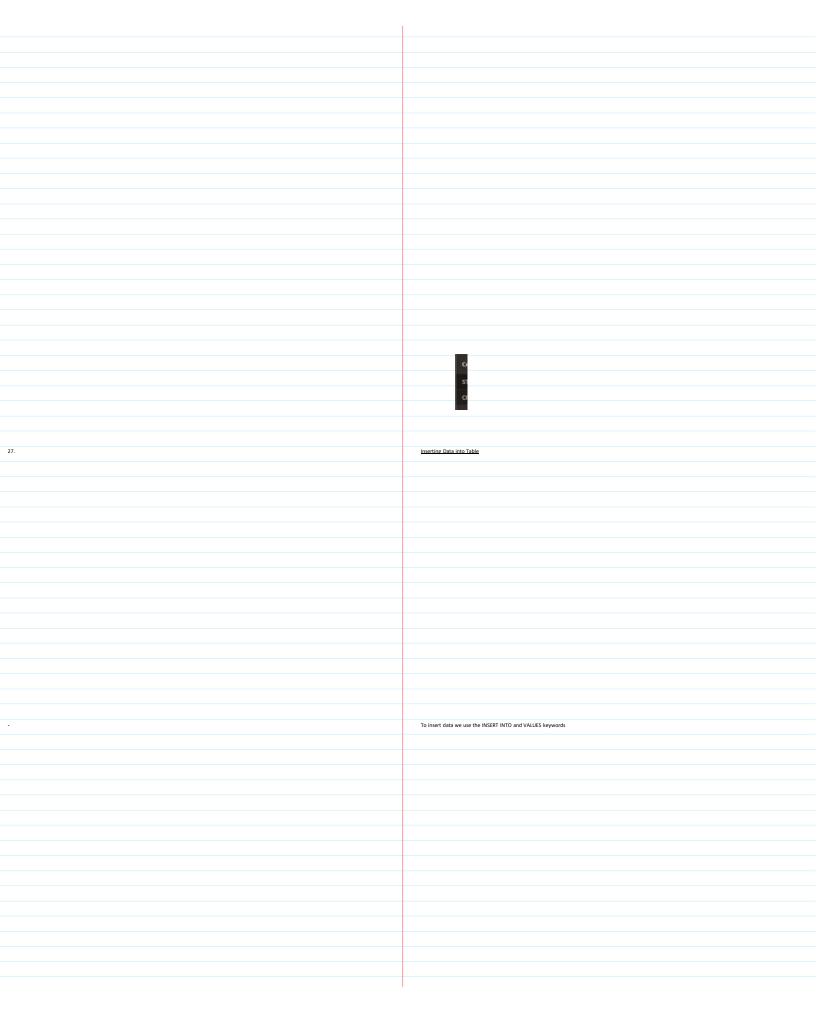


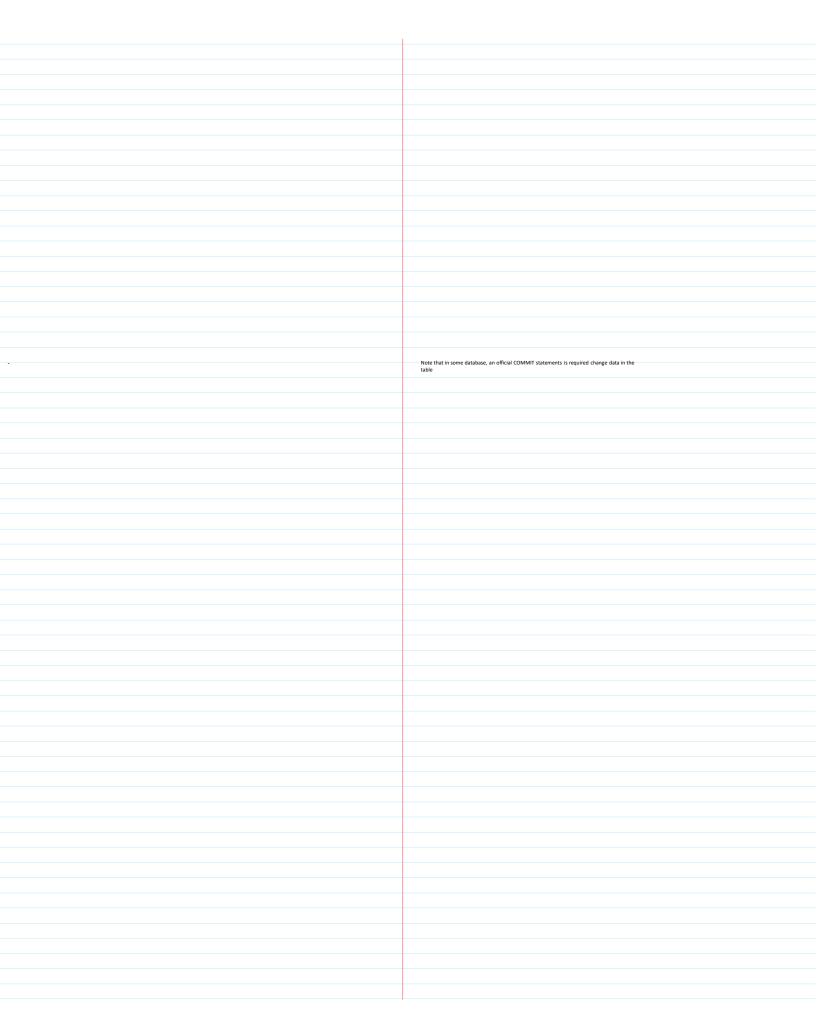


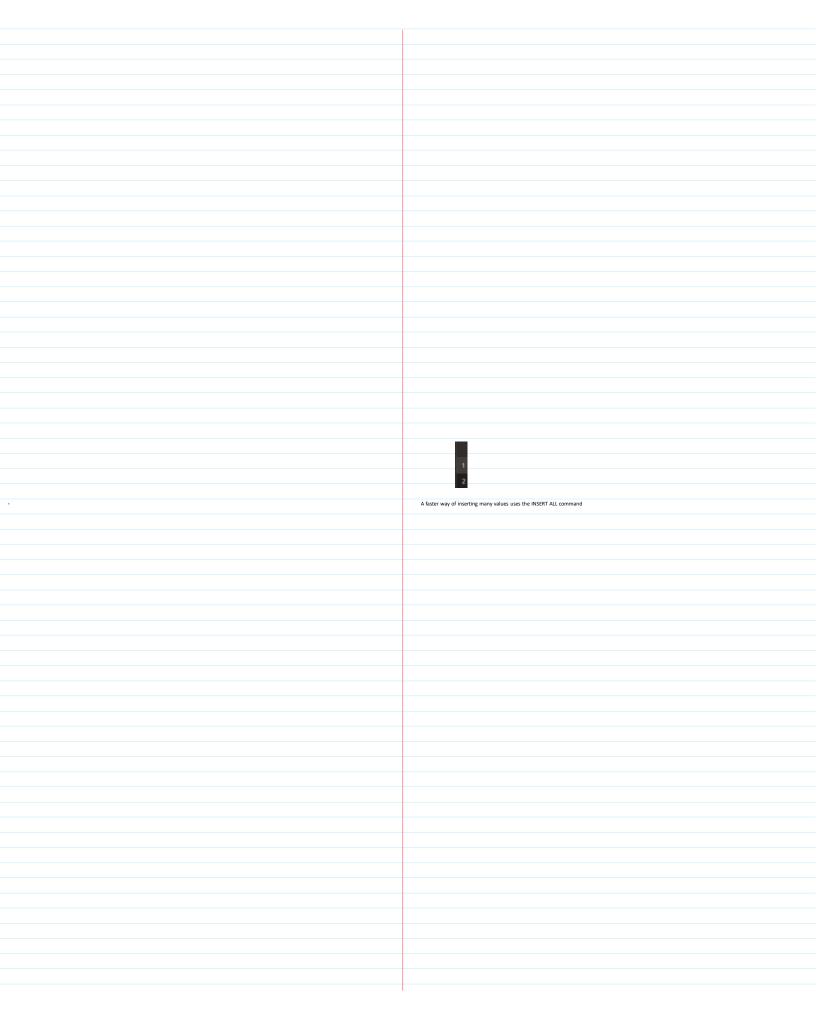
It is also good practise to include a data column that is able to relate to other tables (Ex: deptno in dept and emp tables)
It is also good practise to include a data column that is able to relate to other tables (Ex: deptno in dept and emp tables)
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It is also good practise to include a data column that is able to relate to other tables (Exception in dept and emp tables)
It is also good practise to include a data column that is able to relate to other tables (Excleption in dept and emp tables)

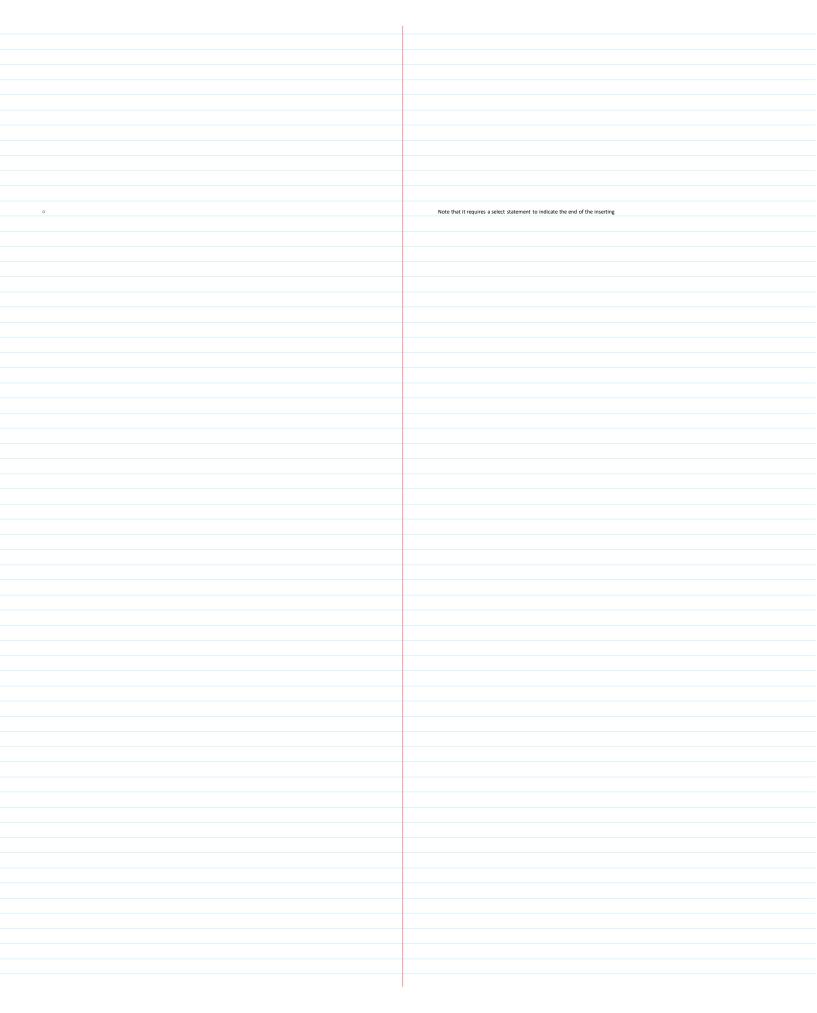




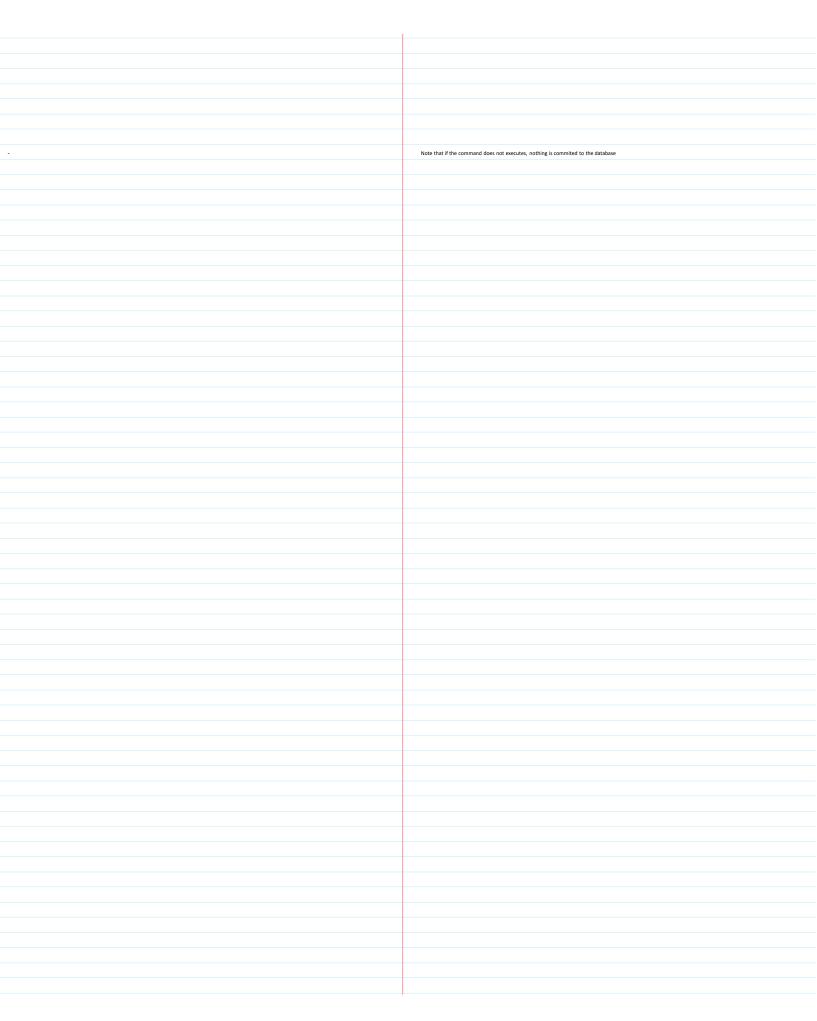




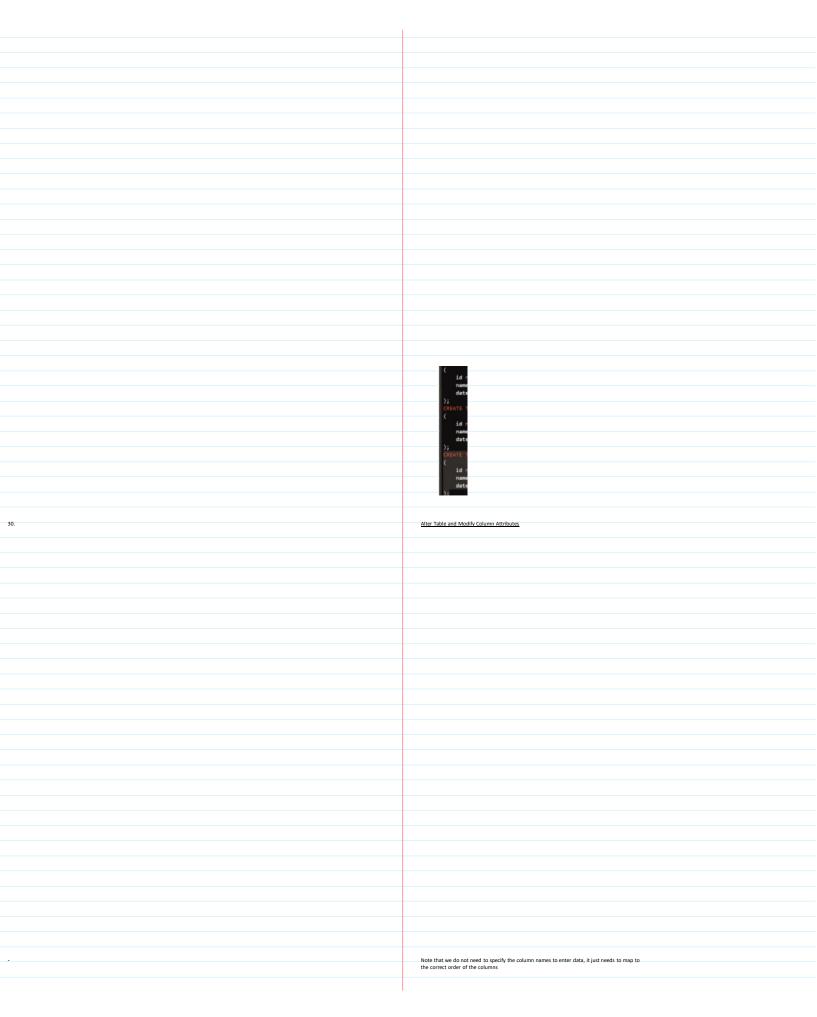


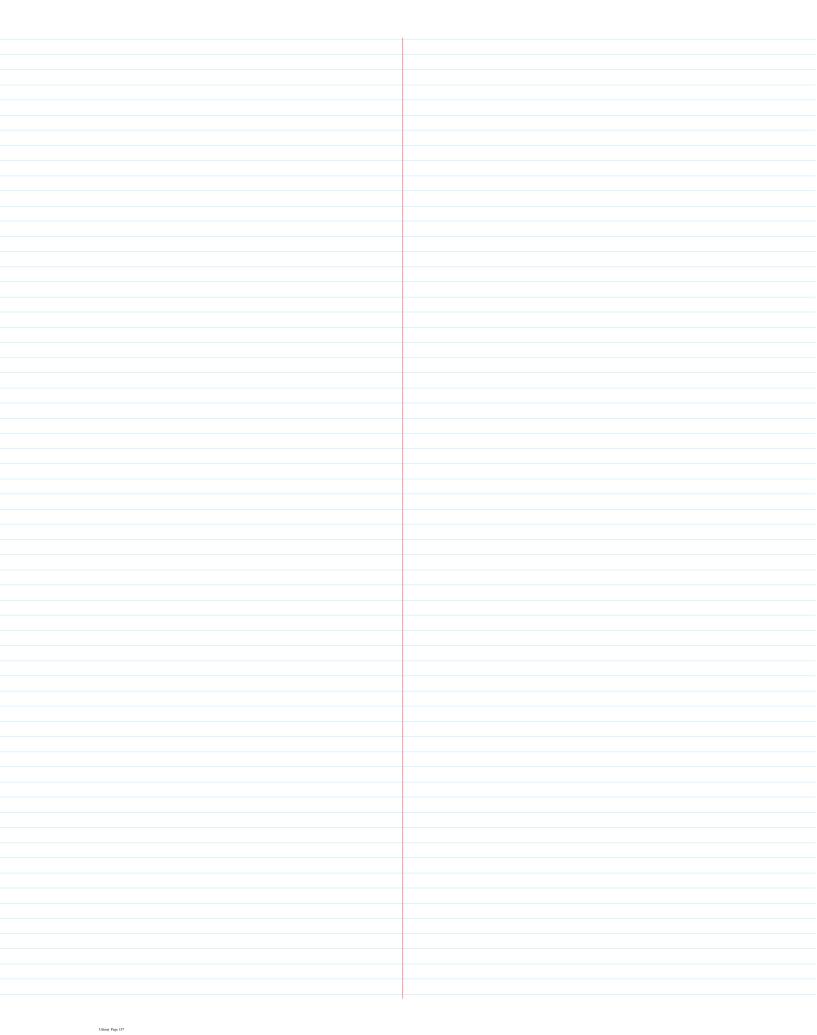


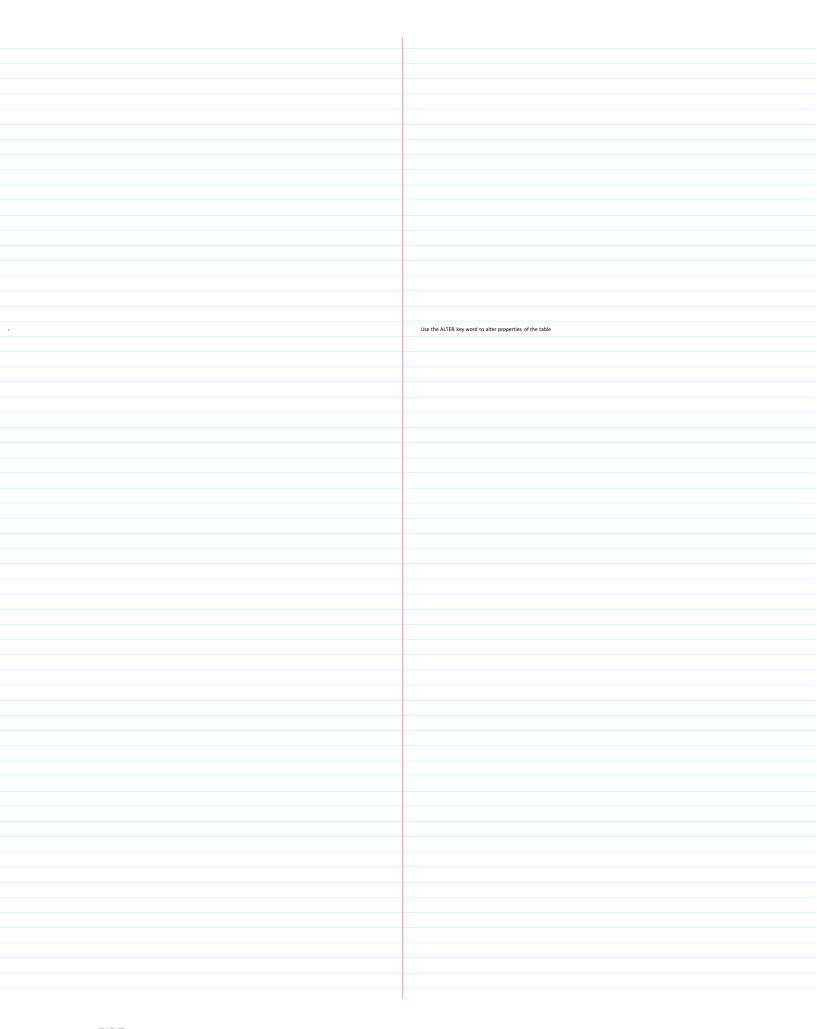
28.	Create Table with Primary Key Constraints
•	Primary Key enforces uniquiness

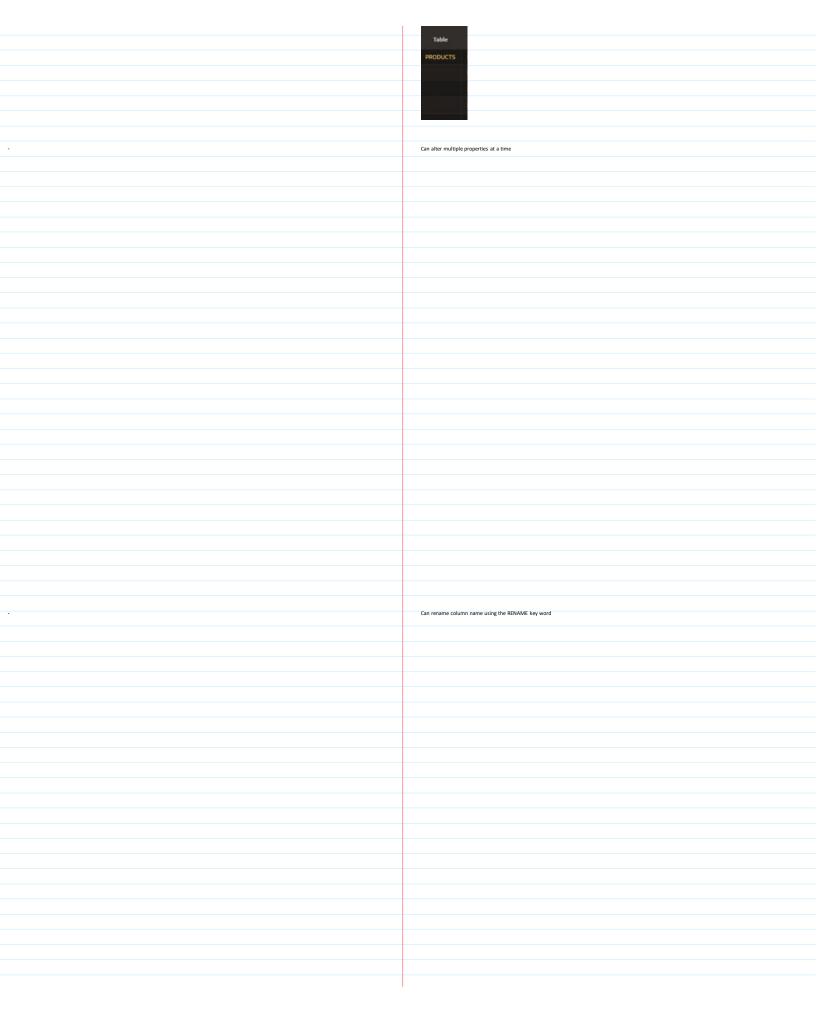


29.	INSERT ALL for Multi-Table and Conditional Inserts
	Able to insert data to a different table that are from different tables
l de la companya de	

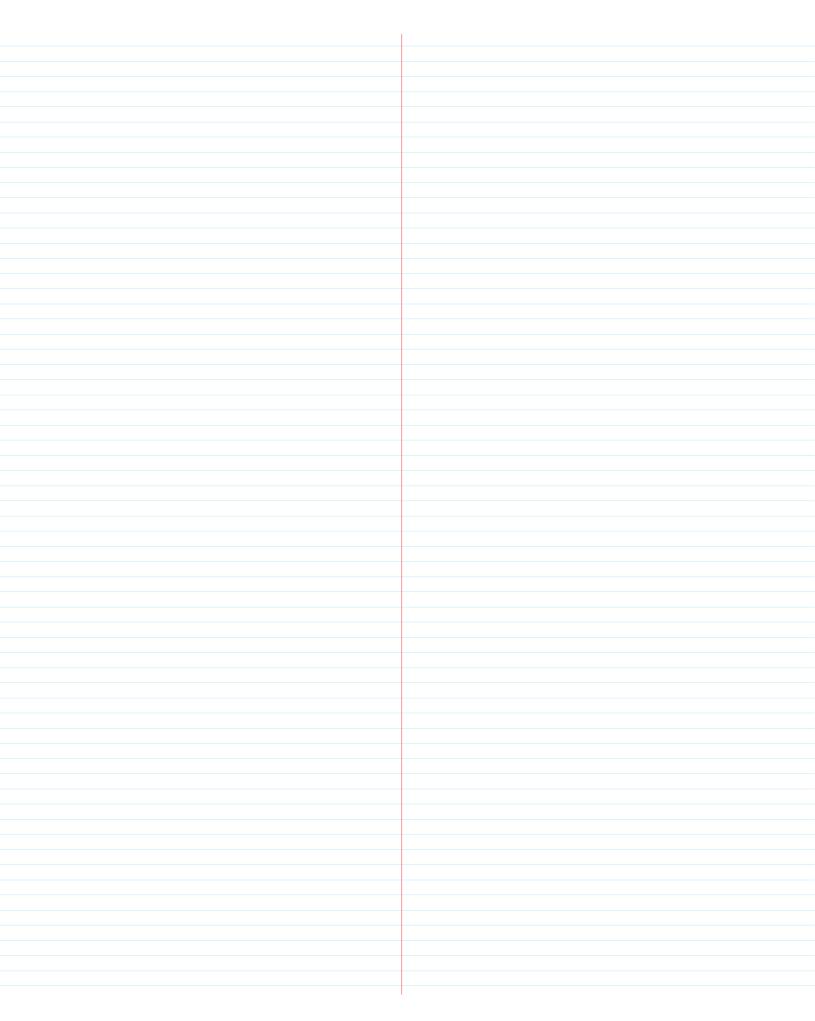


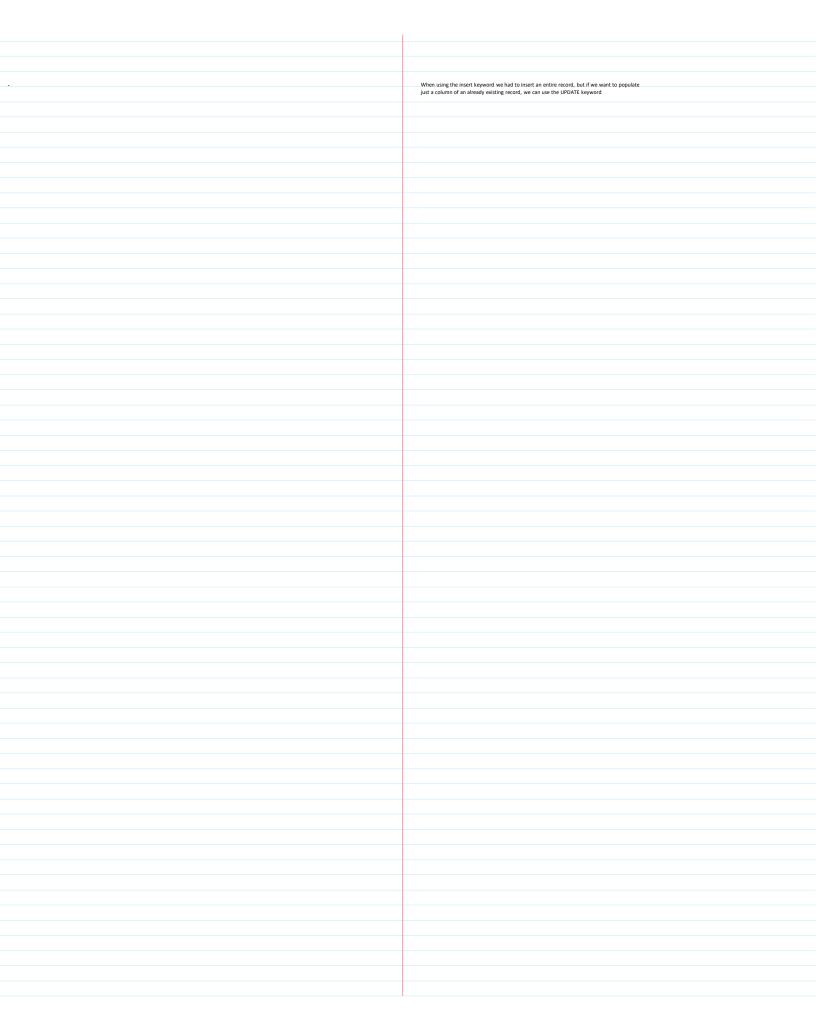


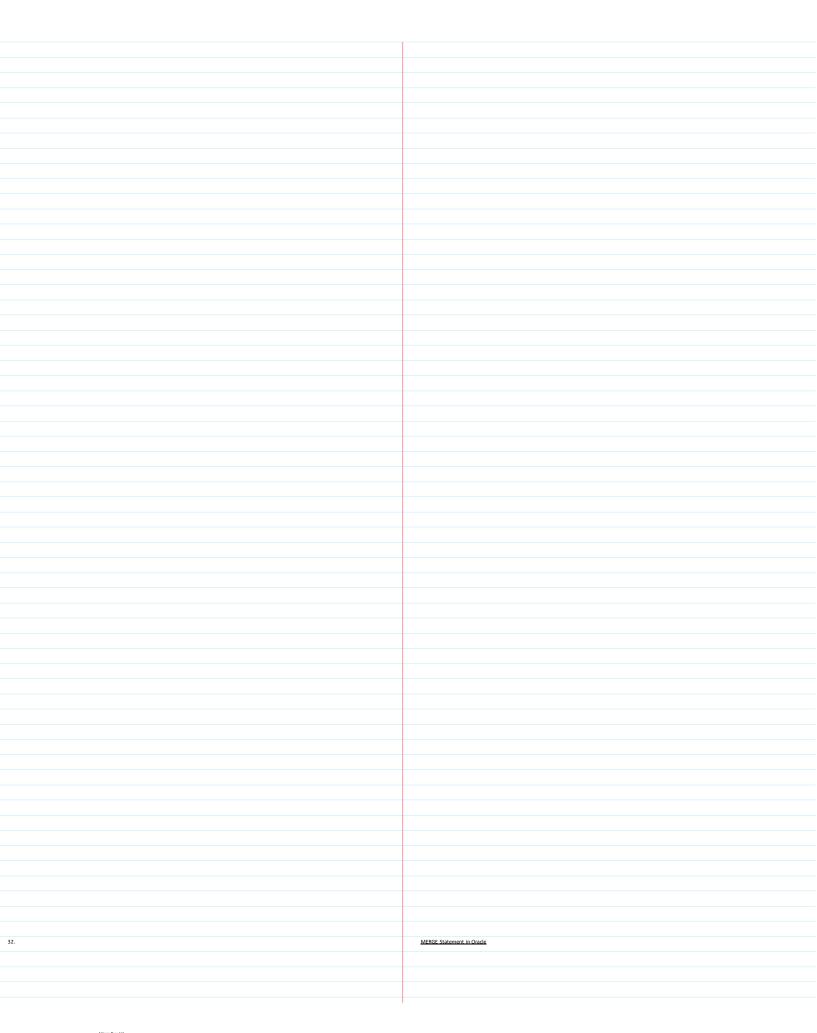


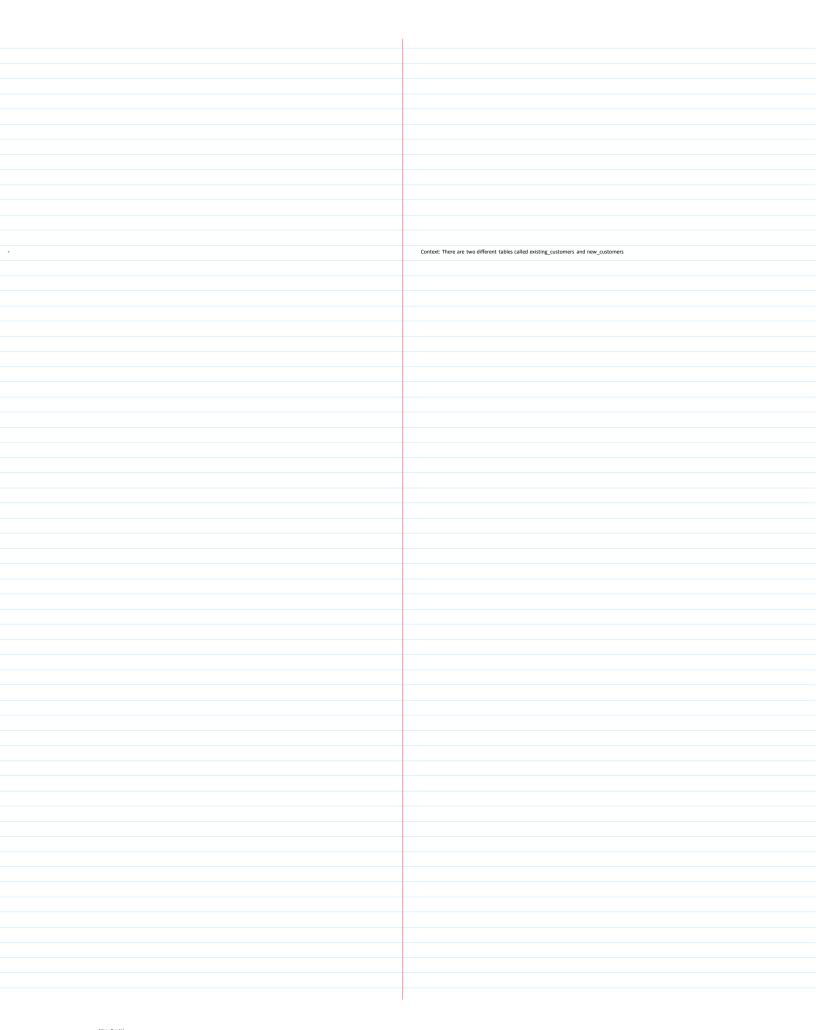


31.	Create Table with SELECT + UPDATE Data
	To create a table that is the same format, data, and properties of another table the following
	can be done
	Note that if we want to add another column that is not nullable, we cannot do that because
	Note that if we want to add another column that is not nullable, we cannot do that because we are essentially adding empty cells

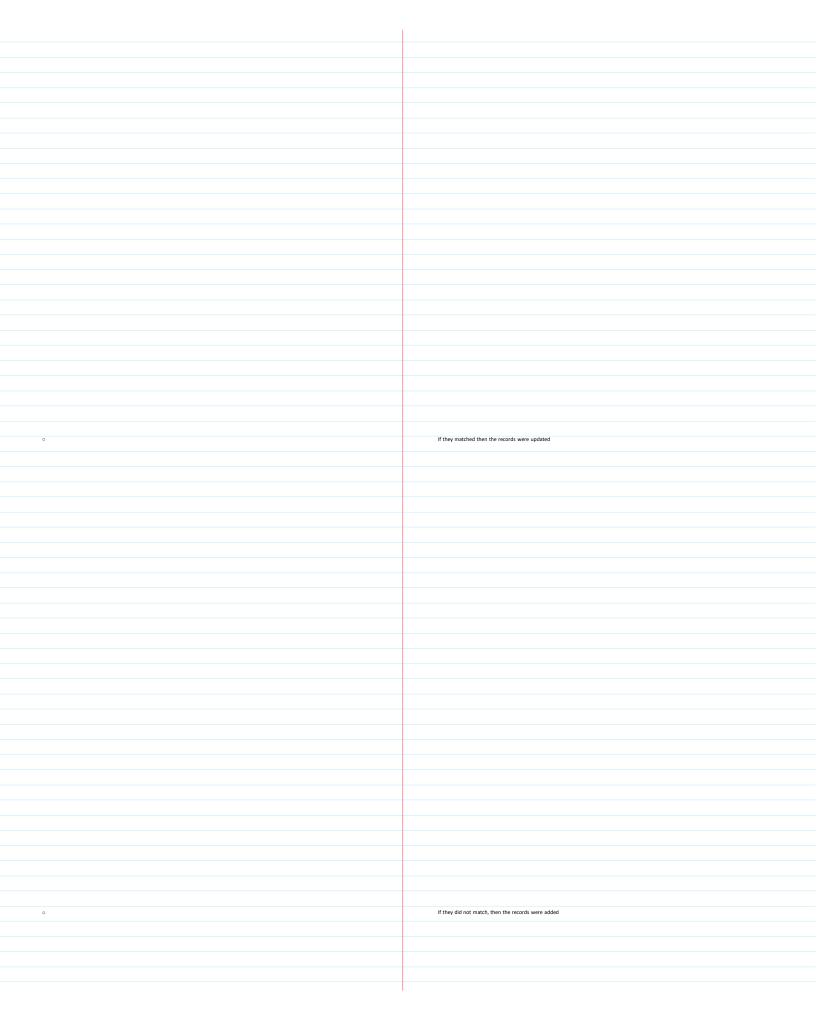


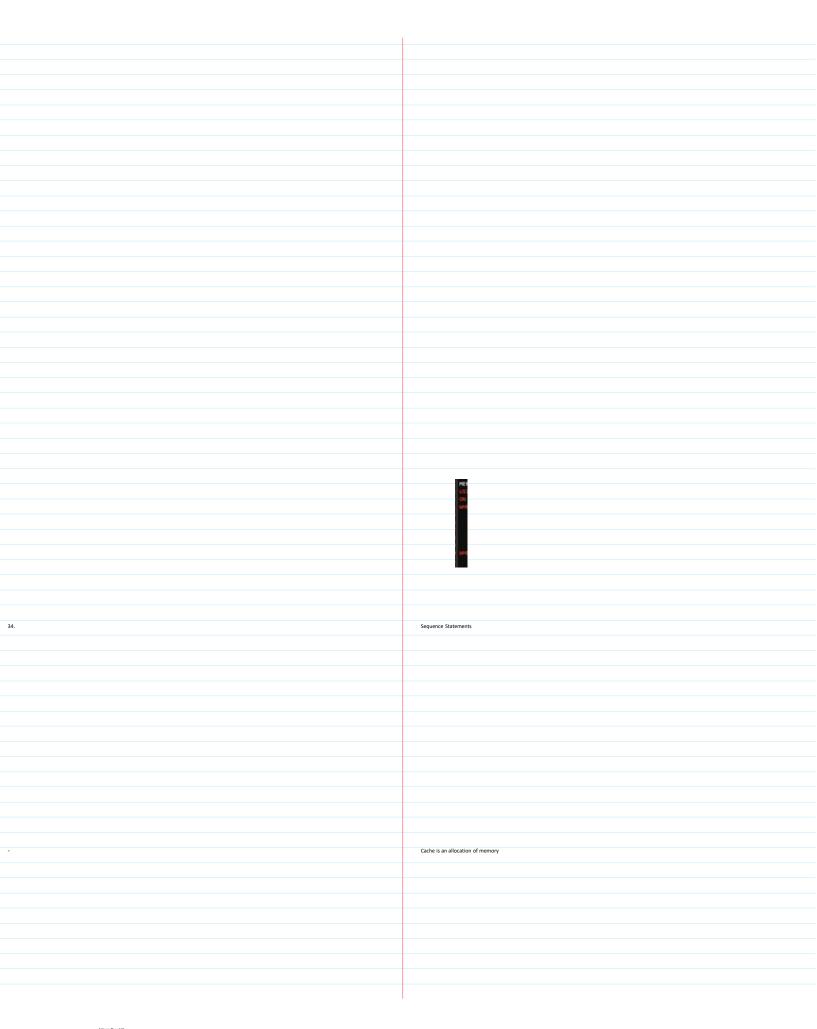




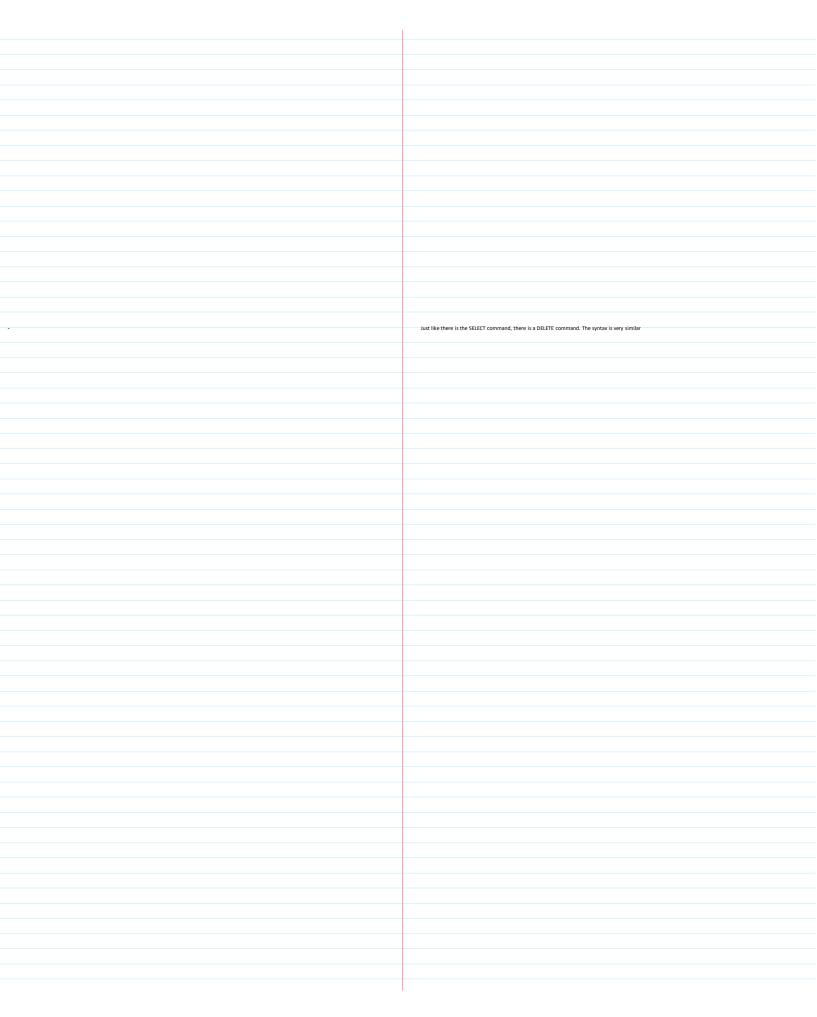


The below example modifies the existing customer table comparing the primary keys with the new_customers table.
new_customers table.

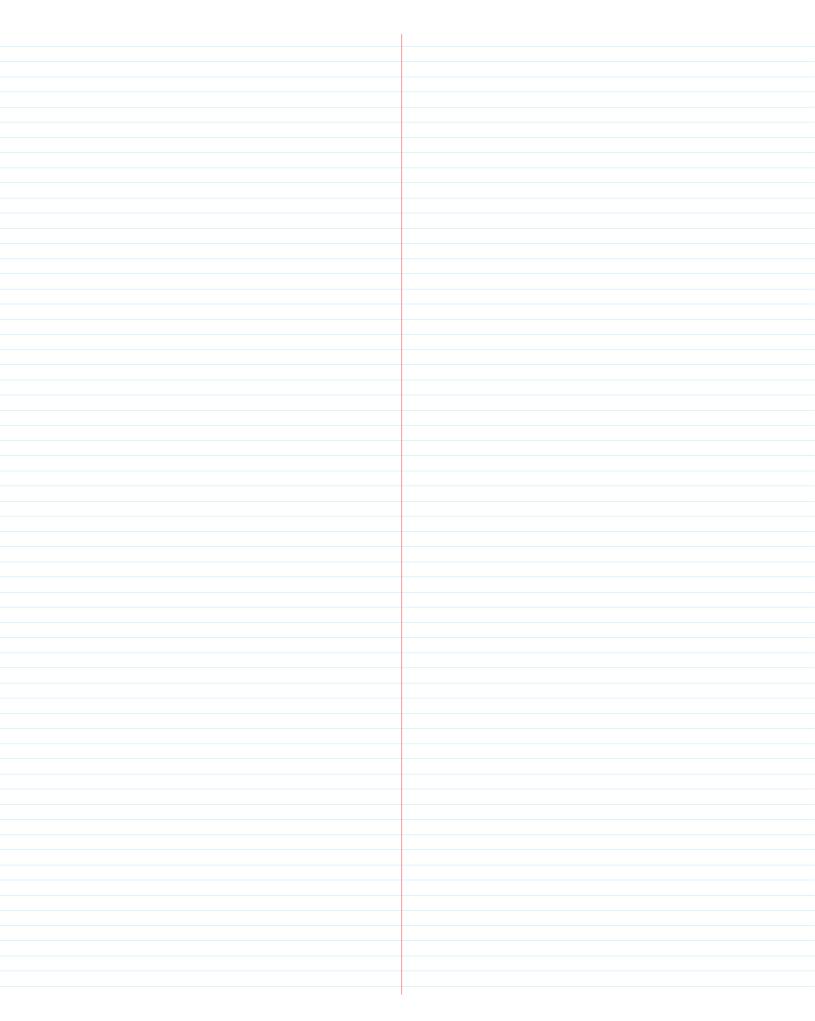


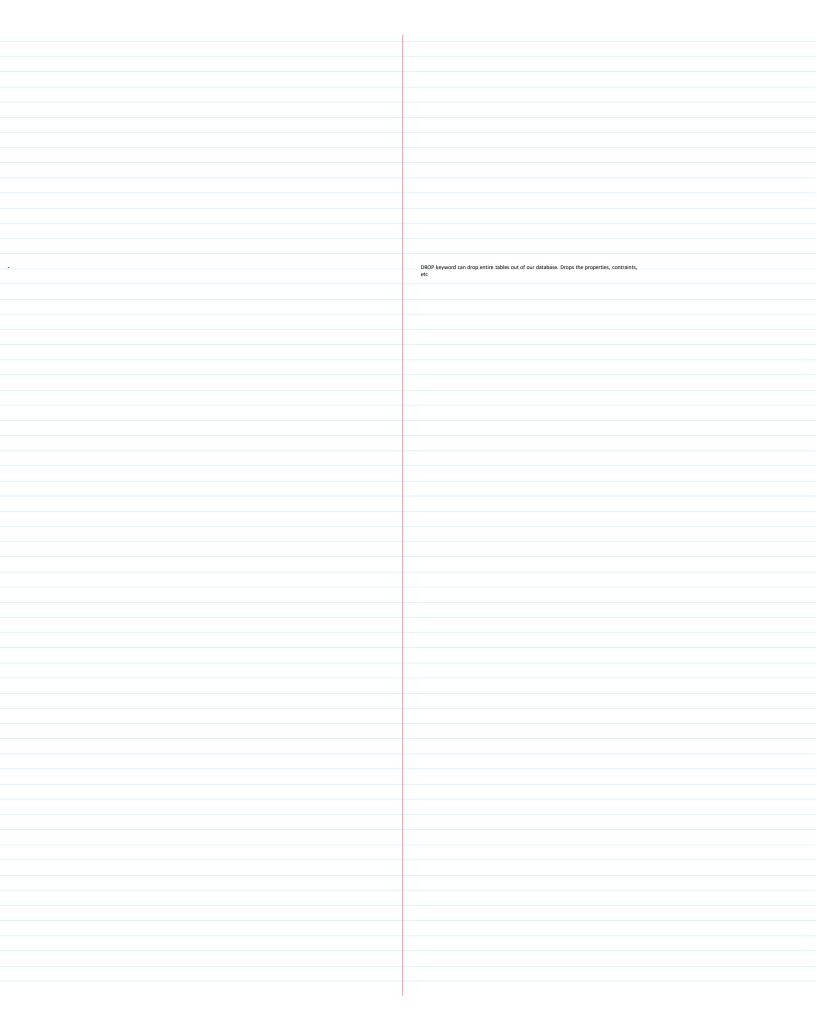


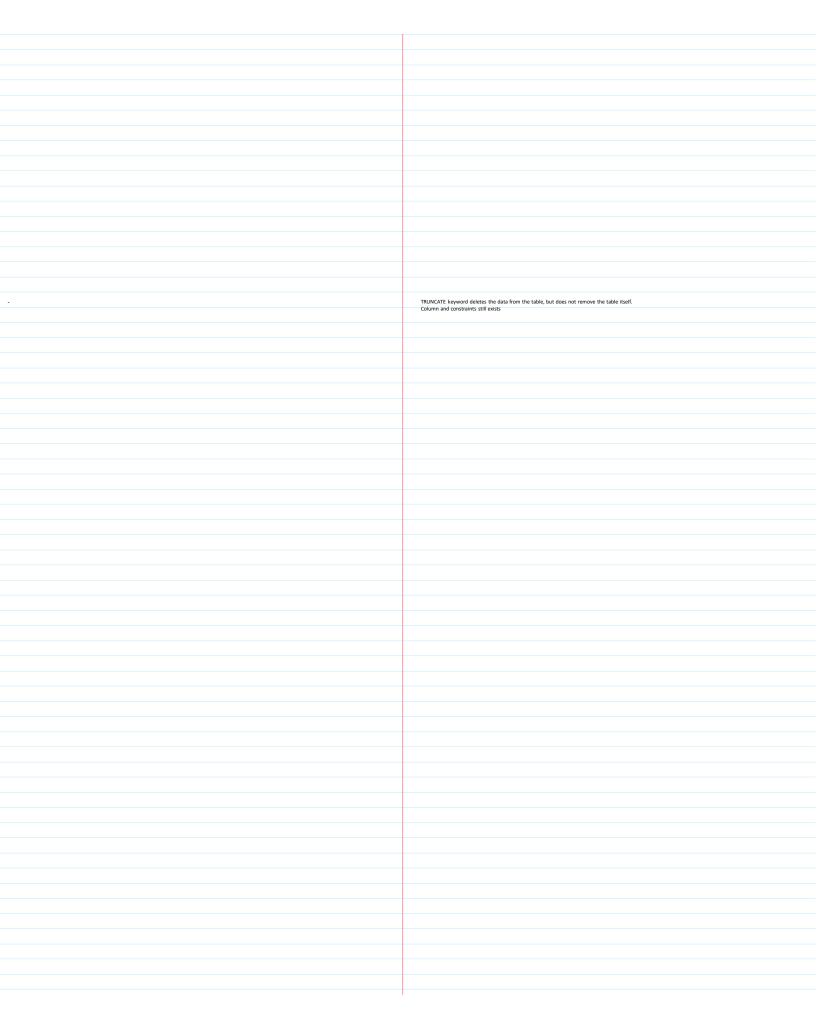
	It is helpful to use the sequence to add ordered ID numbers
•	it is neipriul to use the sequence to addiordered in numbers
35.	DELETE, TRUNCATE and DROP Commands



	Without specifying a where CLAUSE
•	Foreign key constraint is allows columns to be reffered by other tables. Deleting a table may not be allowed due to foreign key constraints

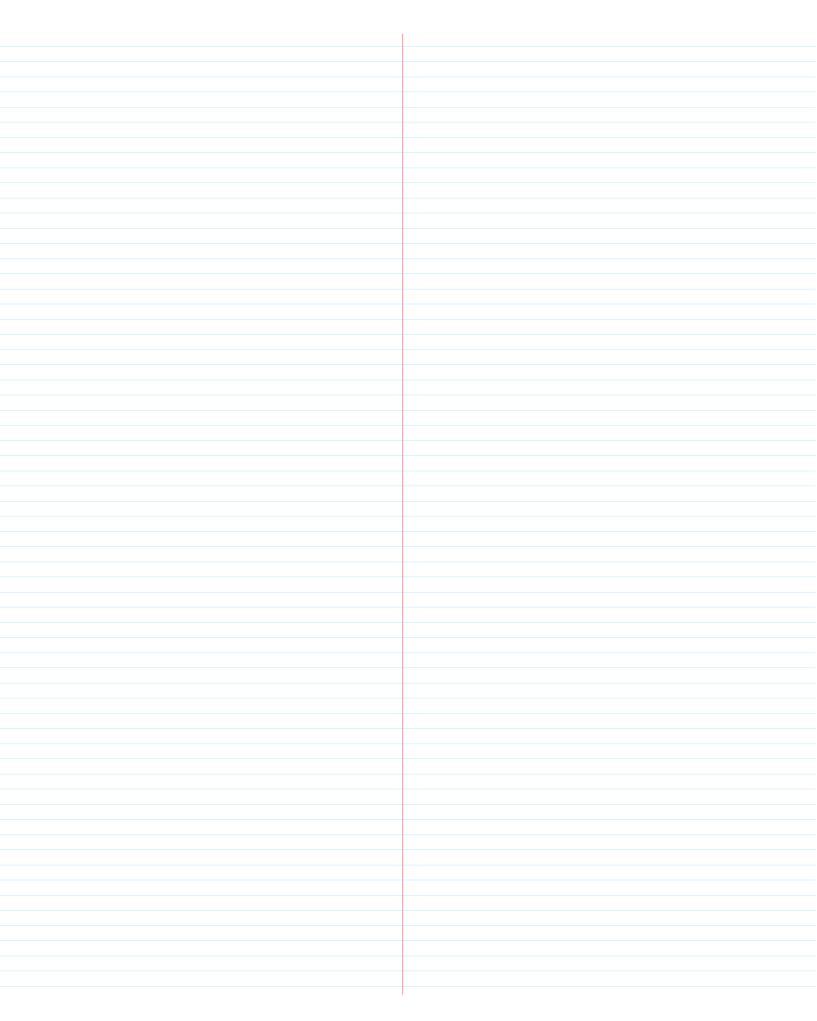


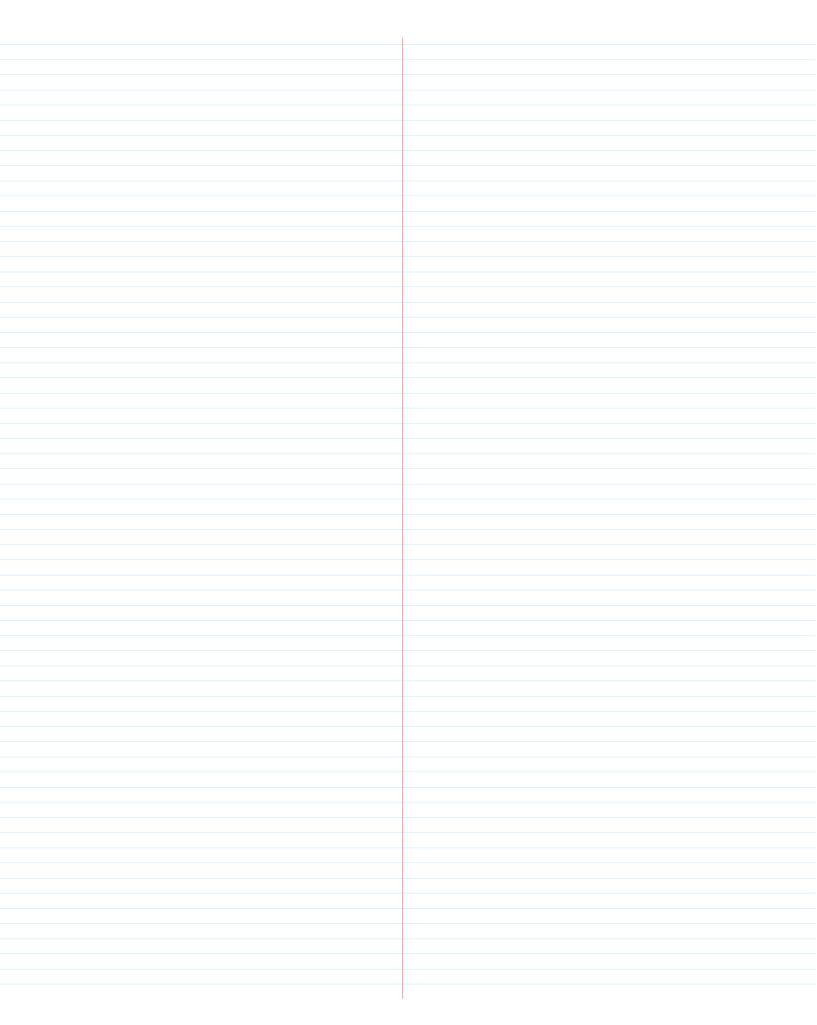


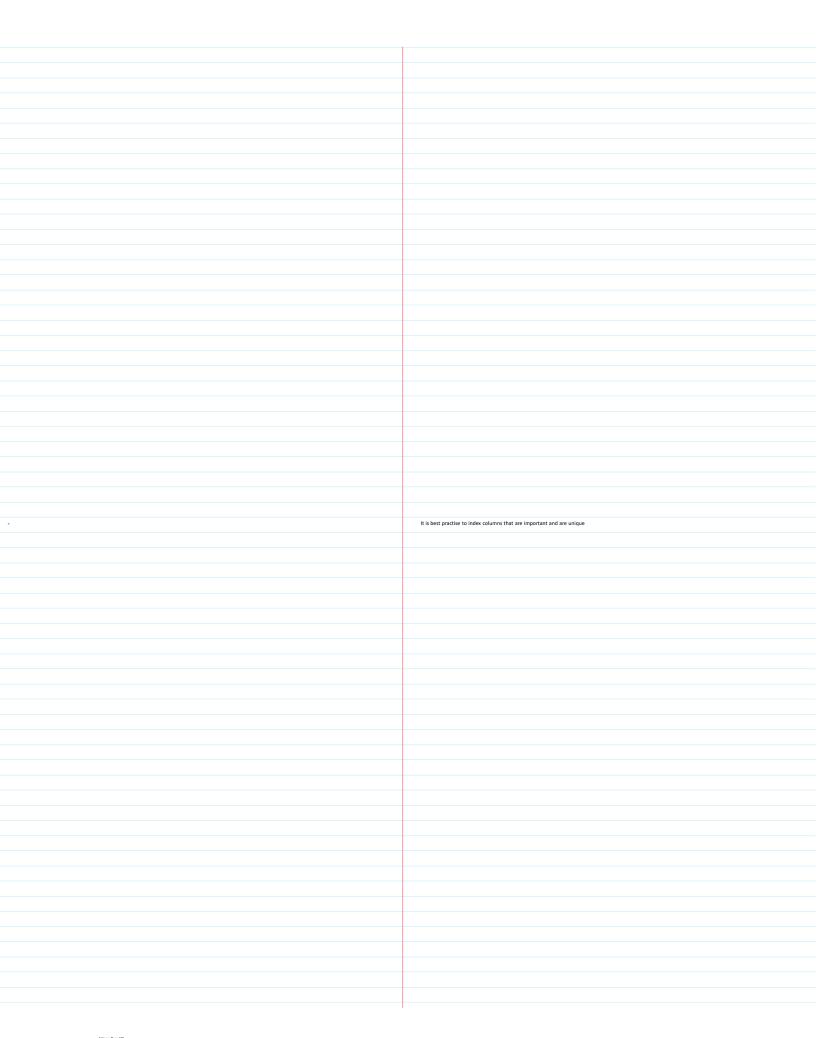


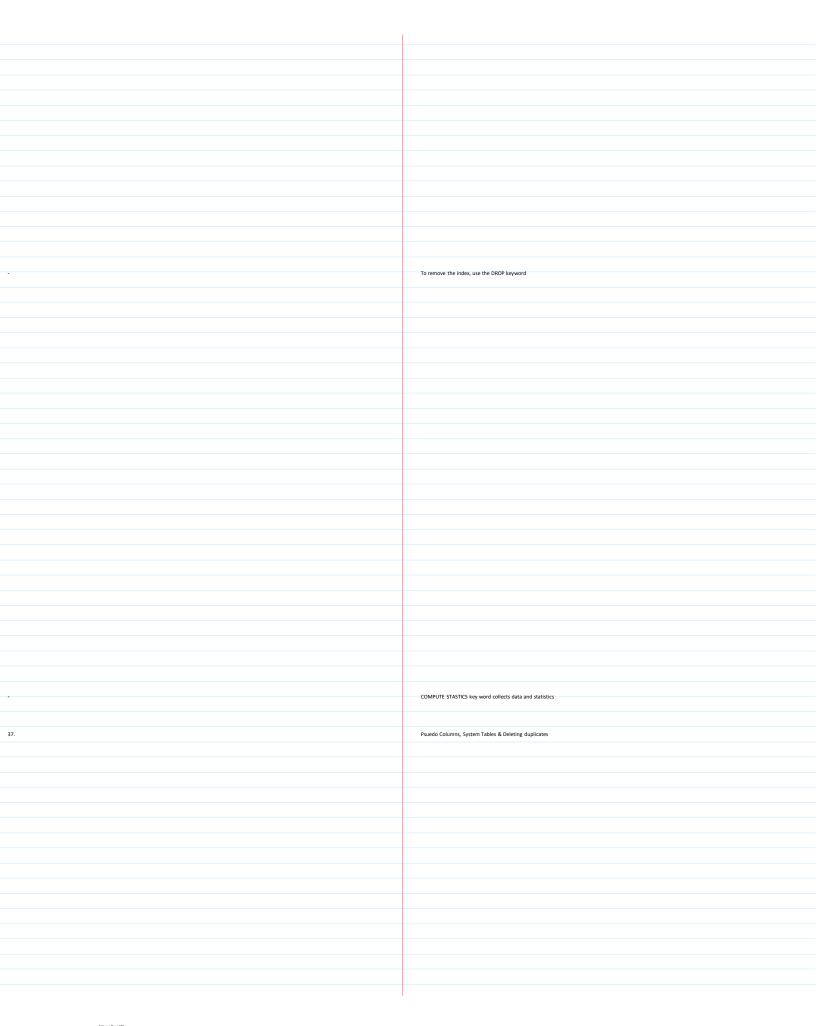
36.	Working with database Index
36.	Working with database Index
36. 36.	Working with database Index Well defined Indices on tables is a very Important performance tuning method.

Creating an indexed column allows for quicker quicker queries because the command does not have to go through all the columns, but notices that the ename column specified is induced to a shall discretely look leats to the hat on claume for the needs
Creating an indexed column allows for quicker quicker queries because the command does not have to go through all the columns, but notices that the ename column specified is indexed and will directly look into the that column for the record
Creating an indexed column allows for quicker quicker queries because the command does not have to go through all the columns, but notices that the ename column specified is indexed and will directly look into the that column for the record
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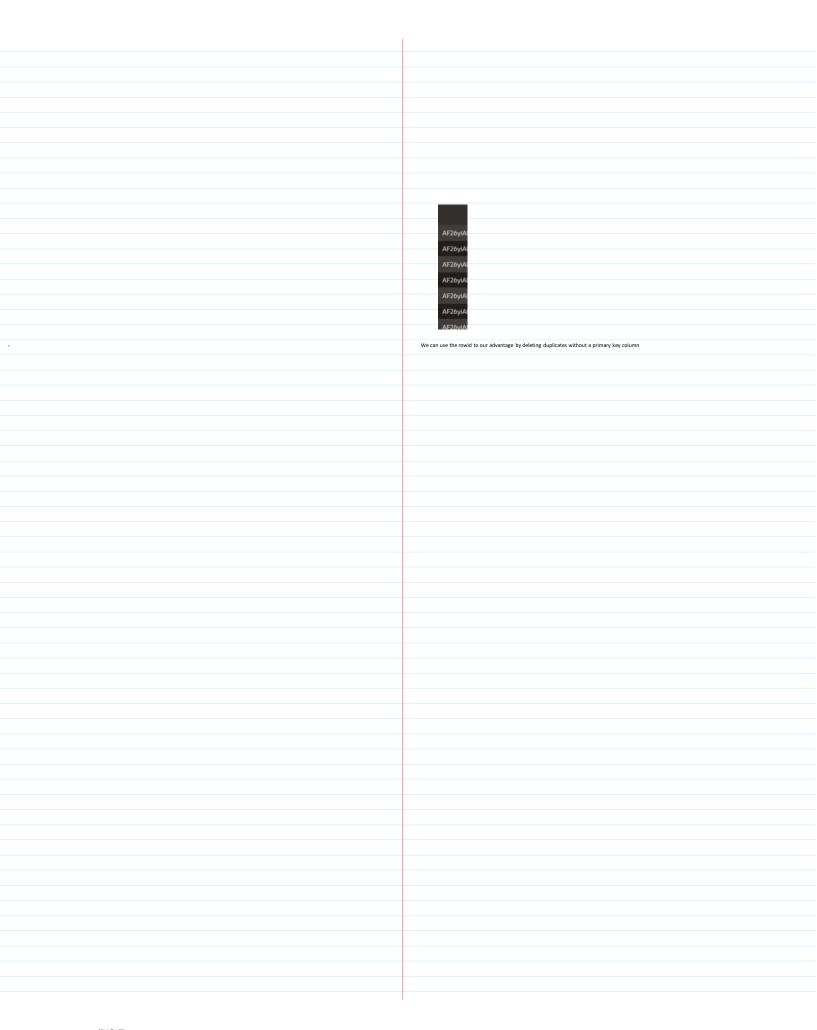


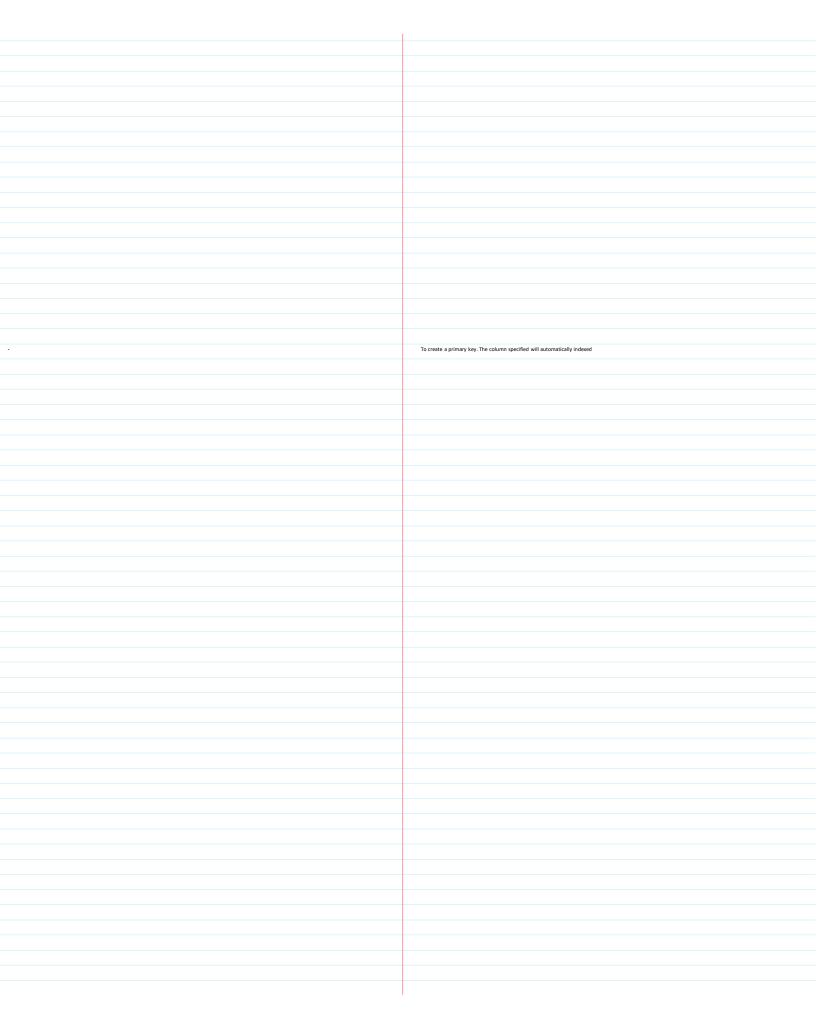


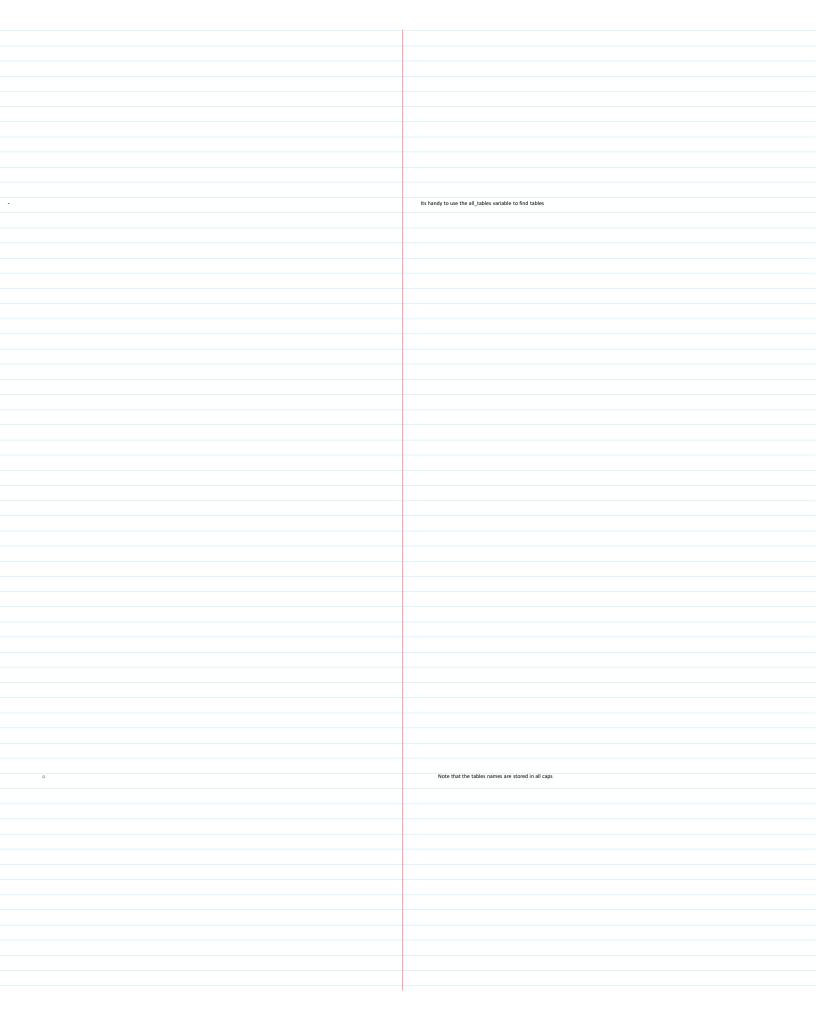


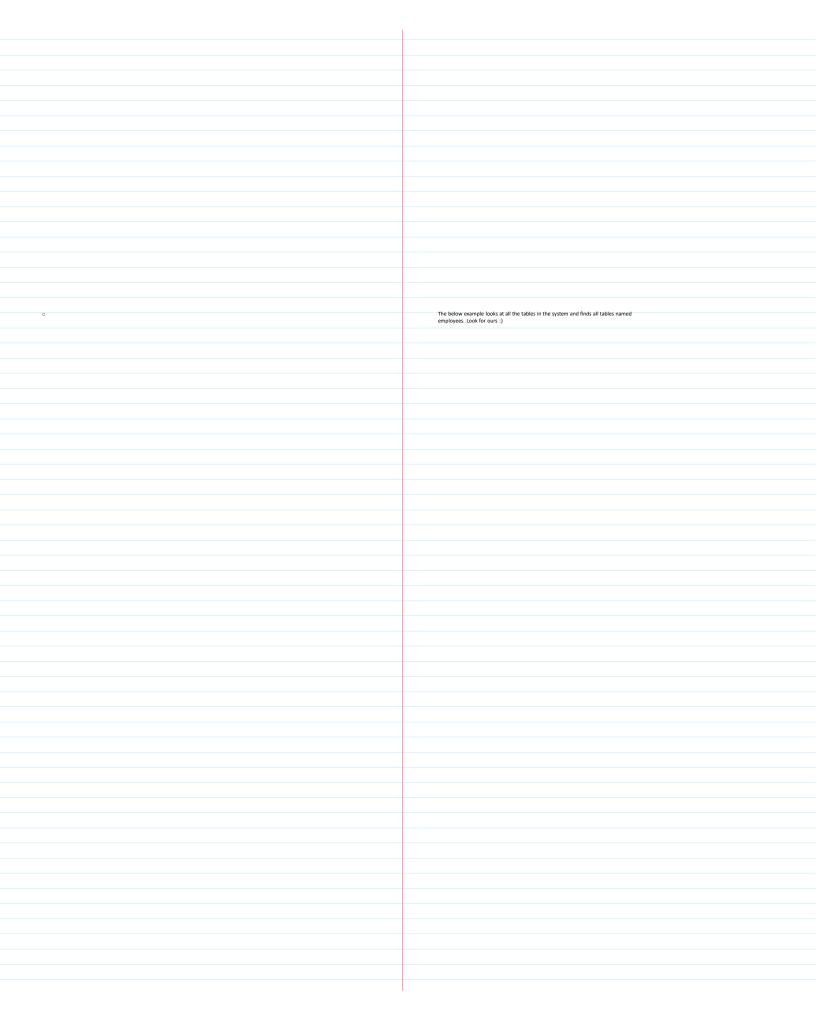


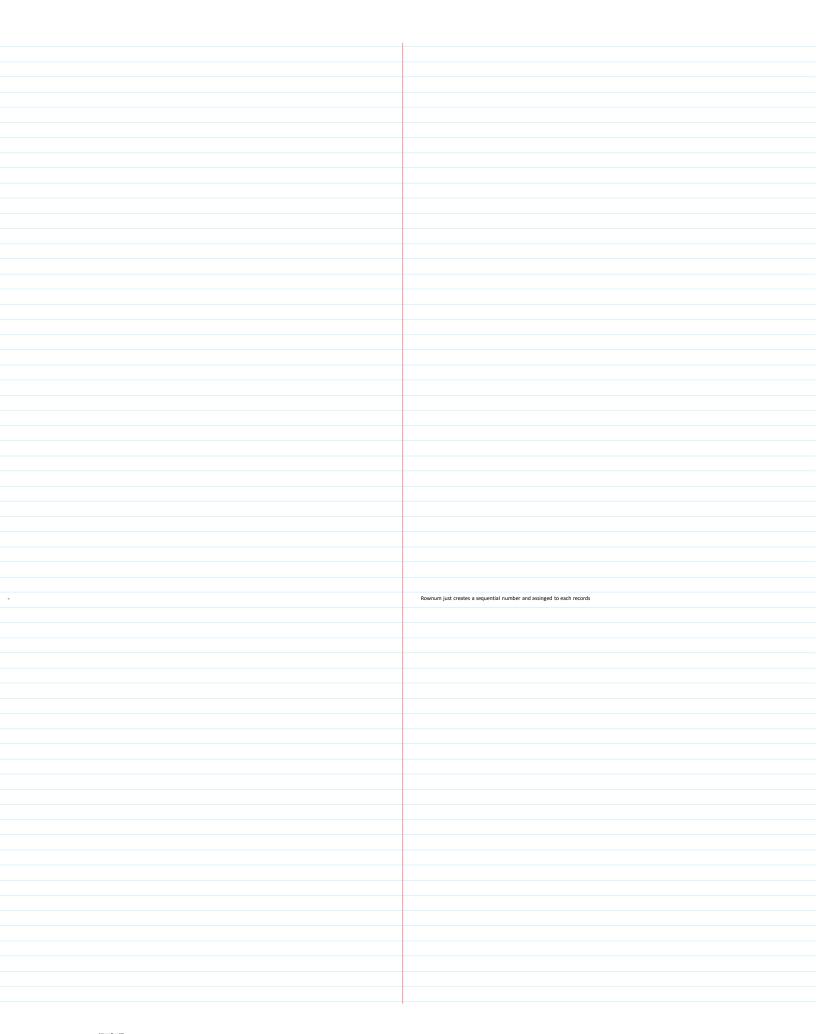
	The POWIN is the address for the second and it will be unique for owner second
•	The ROWID is the address for the record, and it will be unique for every record



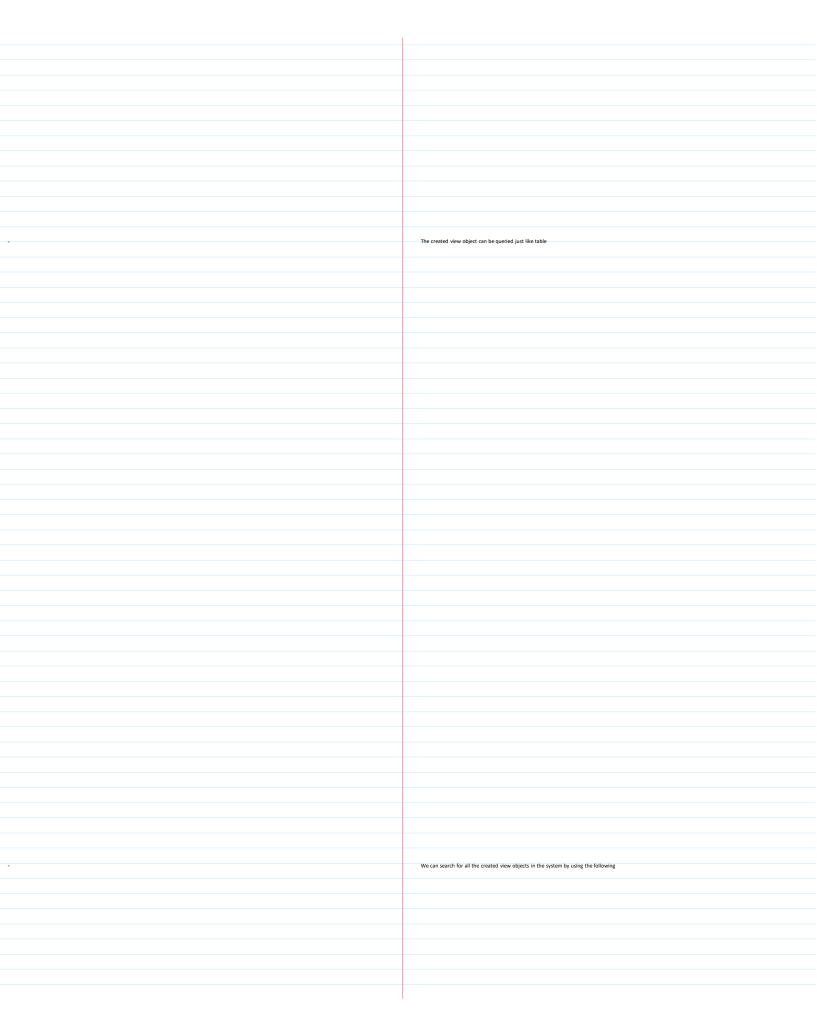








•	Synonym keywords creates a pointer to another table
38.	View and other objects and commands
	Saving a query to a view
-	Saving a query to a view
	Saving a query to a view



•	To filter only to our database
	To filter only to our database
	To filter only to our database
•	To filter only to our database
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