## Module 17: MvSQL BR & IE Data

	modulo 271 myo Q 2 D n G 12 D u u
Backı	p & Restore Database:
	It's important for DBA to regularly back up the database so that if the database
	becomes corrupted then DBA can use the backup to restore the database.
	Backup includes the structure and content of a database.
57 0000	We often include the database named "mysql" in backups since this database stores
	information about the users and the privileges for all databases on the server.
	information about the users and the privileges for all addabases on the server.
Dooks	
Backu	
_	We use mysqldump program to backup or dump one or more databases into a SQL
	script file.
	~
ш	For single database:
	mysqldump db_name > file_path/file_name.sql -u root -p
	For multiple databases:
→□	mysqldump
	403
	-1(1)
	For all databases:
	mysqldumpall-databases > file_path/file_name.sql -u root -p
Resto	ro.
	We can use mysql program to restore database / databases by running the SQL script
	file that contains the database backup.
	the state databases
4	For single database:
<b>→</b> □	mysql
W	And and an analysis of the second sec
	For multiple databases:
Ц	mysql < file_path/file_name.sql -u root -p

Expor	t and Import Data:
	Backing up a database can be referred as exporting a database and restoring a
	database can be referred as importing a database.
	Sometimes we may need just to export data from database to a file or import data
	from a file to a database.
F.,	A data.
55	t data:
	We can add an INTO OUTFILE clause to a SELECT statement to save the result set into
П	an output file. The syntax is:
_	□ SELECT column_list
	☐ INTO OUTFILE 'file_path'
	<del>-</del>
	☐ [FIELDS [TERMINATED BY string]
	[ENCLOSED BY char]
	[ESCAPED BY char]]
	☐ FROM table_name
	☐ [WHERE search_condition]
	☐ [ORDER BY order_by_list]
	We can use FIELD clause to specify the character that will be used to delimit columns
8	and enclose the data.
	We can use LINES clause to specify the new line character.
l man a set	aut Paluta
	ant Points: Use of INTO OUTFILE changes the operation of the SELECT statement in several
	ways:
	The output produced by a SELECT INTO OUTFILE statement never leaves the server
	host. Instead of sending the result over the network to the client, the server writes it
	to a file on the server host.
	To prevent files from being overwritten, either accidentally or maliciously, the server
	requires that the output file not already exist.
	The statement causes the server to write a new file on the server host, so you must
	connect to the server using an account that has the FILE privilege. The file is created
	with file system access permissions that make it owned by the MySQL server but
	world-readable.
	The output file contains one line per row selected by the statement. By default, column values are delimited by tab characters and lines are terminated with
	newlines, but you can control the output format by adding format specifiers after
	the filename

Importing Data:
LOAD DATA INFILE provides an alternative to INSERT for adding new records to a table.
☐ It reads the data from a separate data file.
☐ The syntax is:
☐ LOAD DATA [LOCAL] INFILE 'file_name'
☐ [IGNORE   REPLACE]
☐ INTO TABLE table_name
☐ format_specifiers
☐ [IGNORE <i>n</i> LINES]
☐ [(column_list)]
LOCAL:
MySQL assumes the file is located on the server host and server reads the file
directly.  □ LOCAL means local to the client host from which statement is issued and hence the
client program reads the data file and sends its contents over the network to the
server.
Serven
IGNORE AND REPLACE:
☐ By default, an input record that causes a duplicate-key violation results in an error
and the rest of the data file isn't loaded. Records processed up to that point are
loaded into the table.
lacksquare IGNORE: If you specify the IGNORE keyword following the filename, new records that
cause duplicate-key violations are ignored and no error occurs. LOAD DATA INFILE
processes the entire file, loads all records not containing duplicate keys, and discards
the rest.
□ REPLACE: If you specify the REPLACE keyword after the filename, new records that
cause duplicate-key violations replace any records already in the table that contain the duplicated key values. LOAD DATA INFILE processes the entire file and loads all
its records into the table.
its records into the table.
☐ IGNORE and REPLACE are mutually exclusive.
format_specifiers:
☐ LOAD DATA INFILE and SELECT INTO OUTFILE assume a default data file format in
which column values are separated by tab characters and records are terminated by
newlines.
☐ If a data file to be read by LOAD DATA INFILE has different column separators or line
terminators, you must indicate what the format is so that MySQL can read the file
contents correctly.
<ul><li>For LOAD DATA INFILE,</li><li>format specifiers are listed after the table name.</li></ul>
— To make specimens are listed after the table frame.

	For SELECT INTO OUTFIL	E.	
	☐ they follow the out		
	The syntax for format spec	ifiers is the same for both statemen	ts and looks like this:
	FIELDS → formatting of da	ta values within a line.	
	☐ TERMINATED BY 'st	ring'	
	ENCLOSED BY 'char	,	
	☐ ESCAPED BY 'char'		
L	LINES   defines line endir		
	☐ TERMINATED BY 'st	ring	
IGNOR	E n LINES:		1 011,
	To ignore the initial part of	the data file, use the IGNORE <i>n</i> LIN	ES clause, where <i>n</i> is
	NUMBER OF THE PROPERTY OF THE	ne number of input lines to skip.	
	This clause commonly is us	ed when a file begins with a row of	column names rather
	than data values.	1181	
colum	n_list:	1 1/20	
	By default, LOAD DATA INF	ILE assumes that data values in inpu	it lines are present in
<u></u>	the same order as the colu		
	values.	re columns than the table, MySQL ig	
		few columns, each missing column	
		he same way MySQL handles colum	ns that aren't named
	in an INSERT statement.)	values for every table column, or th	a data values are not
_		columns, add a comma-separated li	
		end of the LOAD DATA INFILE staten	
		MCQs:	
	$C/\mathcal{F}_{-}$		
		used for database backup purposes	s in MySQL:
Option		D. Institute of the control	
	A. dump	B. mysqldump	
	C. save	D. mysqlbackup	
Solutio	on:		
Q2) W	hich of these commands is	used for database restore purposes	in MySQL:
Option	ns:		
	A. load	B. mysqldump	
	C. mysqlrestore	D. mysql	
Solutio	on:		
Module	e 17 – MySQL BR&IE DATA	MySQL Notes Oct 2020	M17-4

Options:  A. >=  B. >  C. <  D. <  Solution:  Q4) which is the command for exporting data?  Options:  A. SELECT column_list INTO filepath  B. SAVE column_list INTO OUTFILE filepath  C. SELECT column_list INTO OUTFILE filepath  D. EXPORT column_list INTO OUTFILE filepath  Solution:  Q5) in the export file the column values are delimited by:  Options:  A. tab character
C. < D. < Solution:  Q4) which is the command for exporting data?  Options:  A. SELECT column_list INTO filepath  B. SAVE column_list INTO OUTFILE filepath  C. SELECT column_list INTO OUTFILE filepath  D. EXPORT column_list INTO OUTFILE filepath  Solution:  Q5) in the export file the column values are delimited by:  Options:
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D. EXPORT column_list INTO OUTFILE filepath  Solution:  Q5) in the export file the column values are delimited by:  Options:
Options:
Q5) in the export file the column values are delimited by: Options:
Options:
B. , character C. # character D. \$ character
Solution:
Q6) Which of the following command is used for importing the data into a table.  Options:  A. IMPORT DATA INTO TABLE table_name
B. LOAD DATA INTO TABLE table_name
C. IMPORT DATA INFILE file_name INTO TABLE table_name
D. LOAD DATA INFILE file_name INTO TABLE table_name
Solution:

MySQL Notes Oct 2020

M17-5

Module 17 – MySQL BR&IE DATA