

Basic Concepts	Filtering, Functions, Subqueries (cont)
SHOW DATABASES;	display list of databases available
SHOW TABLES;	display list of tables in a database
SHOW COLUMNS FROM <table_name>;	show columns in a table
SELECT <column_list> FROM <table_name>;	retrieve data in columns of a table
SELECT * FROM <table_name>;	list all data in a table
SELECT DISTINCT <column_name> FROM <table_name>;	avoid duplicates and return unique ones
... LIMIT 5;	limit number of results
... LIMIT 3,4;	from array index of 3 return 4 items
SELECT <table.column> FROM <table>;	fully qualified column.name
... ORDER BY <column_name>;	sort alphabetically of numerically default ascending order
... ORDER BY <col1, col2>;	first order 1 col then form 2nd col

Join, Table Operations

SELECT customers.ID, customers.Name, orders.Name, orders.Amount	joining tables
FROM customers, orders	
WHERE customers.ID = orders.Customer_ID	
ORDER BY customers.ID;	
SELECT ct.ID, ct.Name, ord.Name, ord.Amount	renaming tables
FROM customers AS ct, orders AS ord	
WHERE ct.ID = ord.Customer_ID ORDER BY ct.ID;	

Filtering, Functions, Subqueries

<code>... WHERE <co ndi tio n>;</code>	ex; ID = 7; name = 'John'/ ='can"t'
<code>=, !=, >, <, >=, <=, BETWEEN</code>	comparison operators
<code>... ... BETWEEN <va l1> AND <va l2>;></code>	returns val1 to val2
<code>AND, OR, IN, NOT</code>	logical operators
<code>... ... AND (val1=00 OR val2=88);</code>	combining logics
<code>... ... IN ('val1', 'val2', 'val3');</code>	multiple OR altern- ative
<code>... ... NOT IN ('val1', 'val2', 'val3');</code>	exclude list items
<code>SELECT CONCAT (col1, ', ' , col2) FROM <ta ble >;</code>	returns the concat- enating string.
<code>SELECT CONCAT (col1, ', ' , col2) AS new_col FROM <ta ble >;</code>	concat results in new col



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