Module 10: MySQL Subquery Subquery: Subquery is a ☐ Subquery can return a single value or list of values. ☐ We can use subquery to pass an aggregate value to the main query. ■ The syntax is: Select column_name_1 [, column_name_2] ☐ From table ■ Where column_name Operator (Select column_name_1 [,column_name_2] ☐ FROM table [WHERE condition]); **Subquery and Operators:** ☐ When we use comparison operator the subquery must return a single value (in most cases an aggregate function). If the subquery returns a list of values then ☐ IN Operator to test whether an expression is contained in a list of values returned by the subquery. ☐ Comparison operator with ALL Keyword to check if the condition is true for all the values returned by the subquery. ☐ Comparison operator with ANY/SOME Keyword to check if the condition is true for any of the values returned by the subquery. **CREATE TABLE with AS clause:** ☐ We can use CREATE TABLE AS statement to create a new table based on the result set defined by a SELECT statement. ☐ The syntax is: → □ CREATE ☐ With CREATE TABLE AS only the column definitions and data are copied. Definitions of primary keys, foreign keys and indexes are not included in the new table. **CREATE TABLE with LIKE clause:** ☐ We can use CREATE TABLE ... LIKE statement to create an empty table based on the definition of another table. ☐ The syntax is: □ CREATE ☐ It will include any column attributes and indexes as defined in the original table. ☐ It won't preserve foreign key definitions.

 Insert, Update and Delete using Subquery: Insert: To insert rows selected from one or more tables into another table we can code a subquery in place of values clause. Update: We can use a subquery in the WHERE clause of an UPDATE statement to provide one or more values used in the search condition. Delete: We can use a subquery in the WHERE clause of an DELETE statement to provide one or more values used in the search condition. 	
Consider two tables:	
<pre>mysql> select * from customer; ++</pre>	mysql> select * from orders;
cid cname	oid name
1 amit 2 sumit 3 rajesh	101 java ref book 1 2 200.00 102 redmi phone 2 1 10499.00 103 fan 1 1 5499.00
3 rows in set (0.04 sec)	
select cname from custome = 'fan'); Options: A. sumit C. output order cannot be Solution:	B. amit e determined D. error
Q2) What is the result of the foll	
	r where cid IN (select cid from orders where name
= 'fan' or like '%phone%');	
Options: A. amit and sumit	B. amit
C. sumit and amit.	D. error
Solution:	
Q3) What is the result of the foll select cid, price from orders Options:	lowing query? s where price IN (select max(price) from orders);
A. error	B. sumit - 10499
C. 1 – 5499 and 2 – 10499 Solution:	D. 2 - 10499
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