SE COMP - B	Roll number:			
Experiment no.: 7 Date of Implementation:				
Aim: To implement Nested Sub-	queries in SQL			
Tool Used : PostgreSQL/ Mysql				
Related Course outcome : At the SQL : Standard language of relati		Students will be able t	to Use	
Rubrics for assessment of Expe				
Indicator	Poor	Average	Good	
Timeliness • Maintains assignment deadline (3)	Assignment not done (0)	One or More than One week late (1-2)	Maintains deadline (3)	
Completeness and neatnessComplete all parts of assignment(3)	N/A	< 80% complete (1-2)	100% complete (3)	
Originality • Extent of plagiarism(2)	Copied it from someone else(0)	At least few questions have been done without copying(1)	Assignment has been solved completely without copying (2)	
KnowledgeIn depth knowledge of the assignment(2)	Unable to answer 2 questions(0)	Unable to answer 1 question (1)	Able to answer 2 questions (2)	
Assessment Marks :				
Timeliness				
Completeness and neatness				
Originality				
Knowledge				
Total				
Total: (Out of 10)				
Teacher's Sign :				

EXPERIMENT 7	Nested subqueries in SQL		
Aim	To implement nested sub-queries in SQL		
Tools	PostgreSQL/Mysql		
Procedure	Use the tables created in the previous experiments and Perform the following queries using nested sub-queries. Client_master (client_no, name, address, city, pincode, state, bal_due) Product_master (product_no, description, profit_percentage, unit_measure, qty_on_hand, reorder_level, sell_price, cost_price) Sales_order(order_no, order_date, client_no, dely_Addr, salesman_no, dely_type, billed_yn, dely_date, order_status) Sales_order_details(order_no, product_no, qty_ordered, qty_disp, product_rate) 1. Find the product no. and description of non-moving products i.e. products not being sold. 2. Find the customer name, address for the client who has placed order no '0191' 3. Find the clients names who have placed orders before the month of May'96 4. Find out if the product '1.44 Drive' has been ordered by any client and print the client_no, name to whom it was sold 5. Find the names of clients who have placed orders worth Rs. 10000 or more 6. Retrieve all the orders placed by a client named 'Rahul Desai' from the sales_order table. 7. Retrieve name, address, city of all the clients who have placed an order through salesman no 's001'.		
Post Lab Questions:	 What is incremental Update? Explain is use of on delete cascade and on update cascade with suitable example? 		

DBMS Practical Implementation, Lab 7.

0. Inserting Necessary Values:

INSERT INTO 'client_master' ('client_no', 'name', 'address', 'city', 'pincode', 'state', 'Bal_due') VALUES ('C0004', 'Rahul Desai', 'The Height,Indra Nagar', 'Mumbai', '400080', 'Maharashtra', '2000');

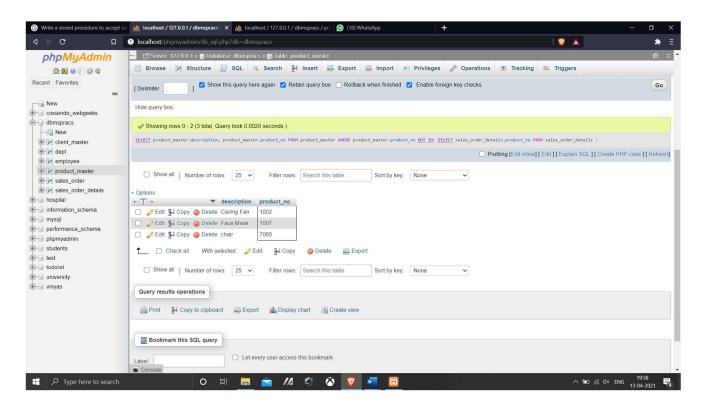
INSERT INTO 'product_master' ('product_no', 'description', 'profit_percent', 'unit_measure', 'qty_on_hand', 'reorder_level', 'cost_price', 'new_price')
VALUES ('1014', '1.44 Drive', '12', '1', '250', '500', '2500', '3000');

INSERT INTO 'sales_order' ('order_no', 'order_date', 'client_no', 'dely_addr', 'salesman_no', 'dely_type', 'billed_yn', 'Dely_date', 'order_status') VALUES ('O191', '1995-04-01', 'C0004', 'The height, Indra Nagar', 'S001', 'Y', 'Y', '1995-04-14', 'Shipped');

INSERT INTO 'sales_order_details' ('order_no', 'product_no', 'qty_ordered', 'qty_disp', 'product_rate') VALUES ('O191', '1014', '25', '25', '3000');

1. Find the product no. and description of non-moving products i.e. products not being sold.

SELECT product_master.description, product_master.product_no FROM product_master WHERE product_master.product_no NOT IN(SELECT sales_order_details.product_no FROM sales_order_details);



2. Find the customer name, address for the client who has placed order no 'O191'

SELECT client_master.name, client_master.address

FROM client_master

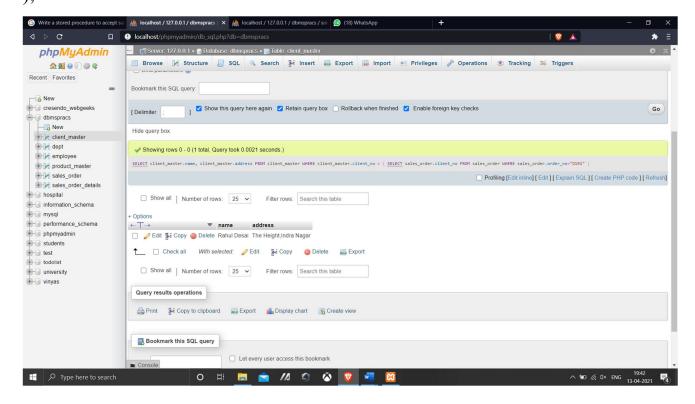
WHERE client_master.client_no = (

SELECT sales_order.client_no

FROM sales_order

WHERE sales_order.order_no="O191"

);



3. Find the clients names who have placed orders before the month of May'96

SELECT *

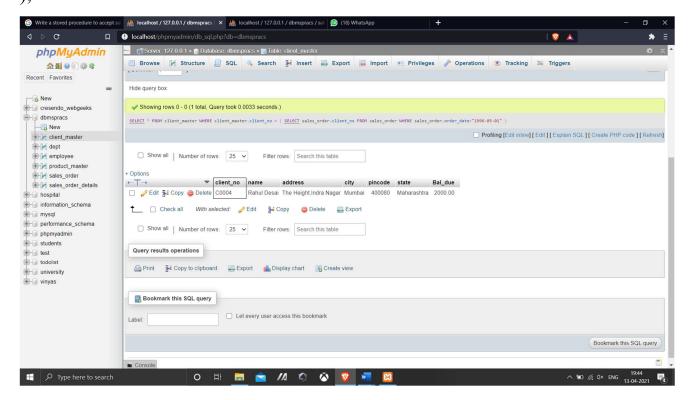
FROM client_master

WHERE client_master.client_no = (

SELECT sales_order.client_no

FROM sales_order

WHERE sales_order.order_date<"1996-05-01"
);



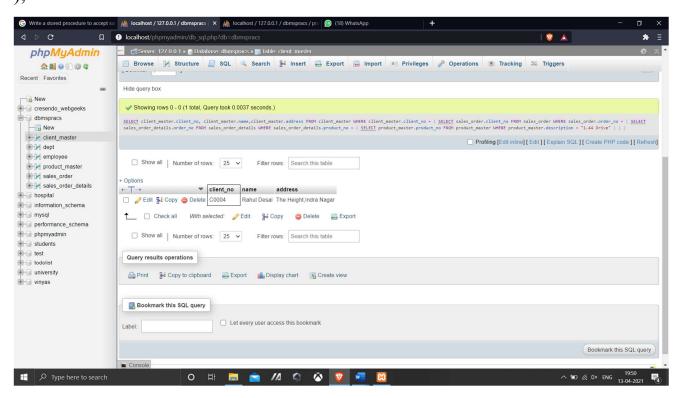
4. Find out if the product '1.44 Drive' has been ordered by any client and print the client no, name to whom it was sold

SELECT client_master.client_no, client_master.name,client_master.address FROM client_master WHERE client_master.client_no = (

SELECT sales_order.client_no FROM sales_order WHERE sales_order.order_no = (

SELECT sales_order_details.order_no FROM sales_order_details WHERE sales_order_details.product_no = (

SELECT product_master.product_no FROM product_master WHERE product_master.description = "1.44 Drive"



5. Find the names of clients who have placed orders worth Rs. 10000 or more

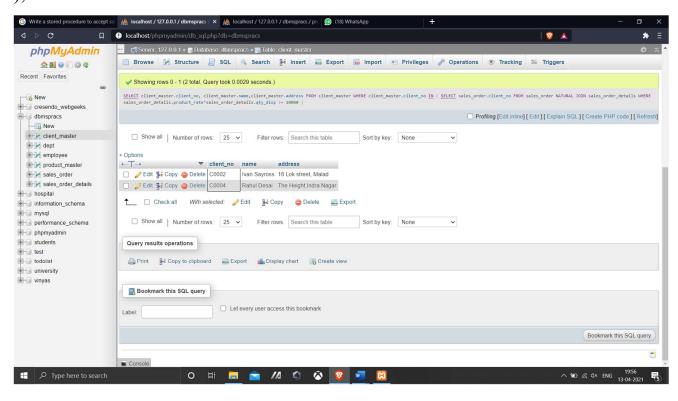
SELECT client_master.client_no, client_master.name,client_master.address FROM client_master

WHERE client master.client no IN (

SELECT sales order.client no

FROM sales order NATURAL JOIN sales order details

WHERE sales_order_details.product_rate*sales_order_details.qty_disp >= 10000



6. Retrieve all the orders placed by a client named 'Rahul Desai' from the sales order table.

SELECT *

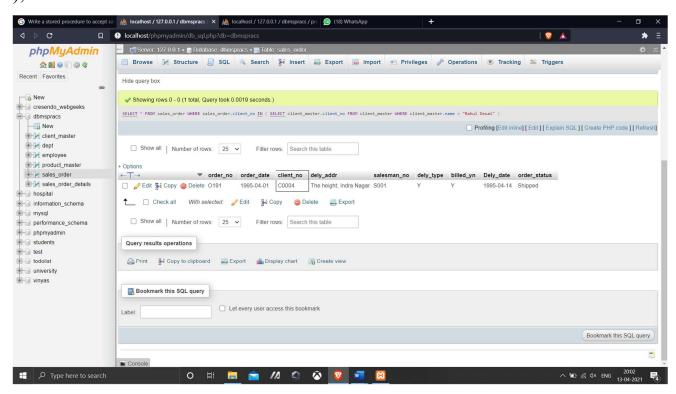
FROM sales order

WHERE sales order.client no IN (

SELECT client master.client no

FROM client master

WHERE client_master.name = "Rahul Desai"



7. Retrieve name, address, city of all the clients who have placed an order through salesman no 's001'.

SELECT client_master.client_no, client_master.name,client_master.address, client_master.city

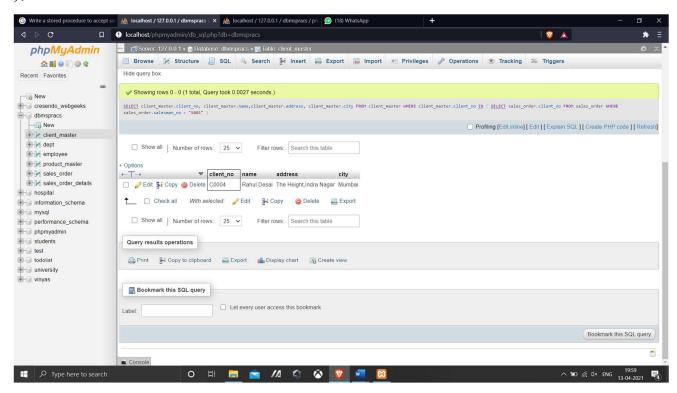
FROM client_master

WHERE client_master.client_no IN (

SELECT sales order.client no

FROM sales order

WHERE sales_order.salesman_no = "S001"



Brendon Lucy 8463 2E couls Exp-7 - Portlep U & What is Increated Updates? An inchemental apolate and new resumble to It performs a part of expelate of a project data set by selection, adding new ond malified remode. The data set should be a project data set. The Inclinental update operation felicles a Subset of the records in the Source Him table. The subset is determed by wing a filtering produtate that specifies the Hive table column that holds the records and value of the records to fetch The records in the subset botch are ingested as follows: - If a record is proved new (does not exist in the data set, it is related to the date date set but its content has been changed, it replaces the recorder the data set.

(2) What is UPDATE Carende & DELETE

Corende with suitable example? DELETE Caracle: - when we ceente a forceson key using this option, it deletes the reflecting hows in the child take when the referenced now is deleted en the parent table which has a primary UPDATE Coscade: - When we create a forelign how we updated in the child tablewhen the referenced you is updated in the passed table which has a primary key. Suppose that we have two tables: buildings one hooms. In this database model, each buildings has one or money rooms. However each noon belongs to one only building. A noon would not exist without a building When you delete a now from the buildings table, you also want to delete all rowe in the reasons table that references to the vower the buildings table. For excomply when we delete a row wieth building no.) on the building table, we also want the vacue in the moone laby that refers to kurlely

re 2. will be also reported.

Syntax: CREATE TABLE rooms room-no INT PRIMARY AUTO_INCREMENT, toon-nome VARCHAR(255) MOT HULL; building no IMT MOT MULL, FOREIGH KEY (building - ne) REFERENCES buildings (building - ne) DELETE CASCADE