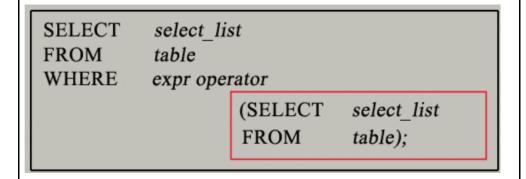
Name	Adwait S Purao			
UID no.	2021300101			
Experiment No.	6			

AIM:	To perform Sub-Queries in MySQL					
Program 1						
PROBLEM STATEMENT:	. Perform various subqueries on the Hotel database					
Theory:	What is subquery in SQL? A subquery is a SQL query nested inside a larger query. A subquery may occur in: - A SELECT clause - A FROM clause - A WHERE clause The subquery can be nested inside a SELECT, INSERT, UPDATE, or DELETE statement or inside another subquery. A subquery is usually added within the WHERE Clause of another SQL SELECT statement. You can use the comparison operators, such as >, <, or =. The comparison operator can also be a multiple-row operator, such as IN, ANY, or ALL. A subquery is also called an inner query or inner select, while the statement containing a subquery is also called an outer query or outer select. The inner query executes first before its parent query so that the results of an inner query can be passed to the outer query. You can use a subquery in a SELECT, INSERT, DELETE, or UPDATE statement to perform the following tasks: Compare an expression to the result of the query. Determine if an expression is included in the results of the query.					
	Check whether the query selects any rows. Syntax:					



The subquery (inner query) executes once before the main query (outer query) executes.

The main query (outer query) use the subquery result.

Queries

Subquery 1:

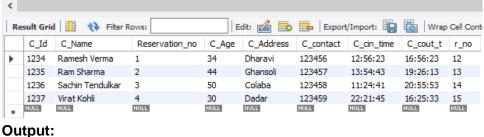
Statement:

Selects customer with minimum age

Code:

use hotel; select * from customer where c_age=(select min(c_age) from customer);

Original table:



Cutput.



Subquery 2:SQL Subquery and Join

Code:

use hotel;

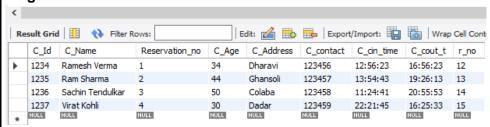
select distinct customer.C_Id,customer.C_Name

from customer

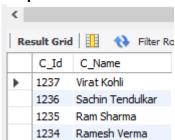
inner join reservation

on customer.Reservation_no=reservation.Reservation_no order by customer.C_ld desc

Original table:



Output:



Subquery 3

Statement:

Selects customer name and customer id with customer name starting with Ram

Code:

use hotel;

select c_name as Customer_Name,c_id as Customer_Id,c_contact

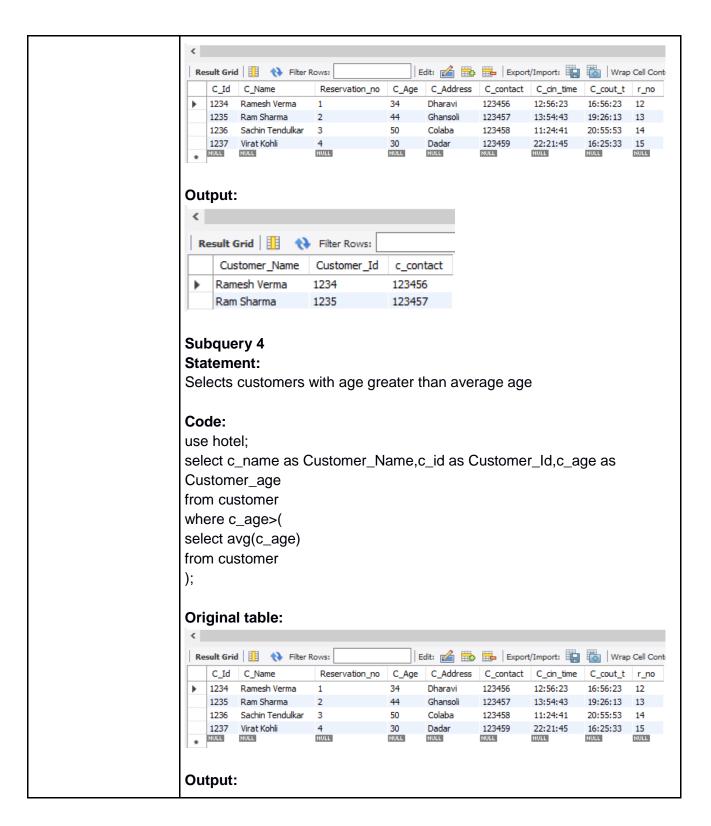
from customer

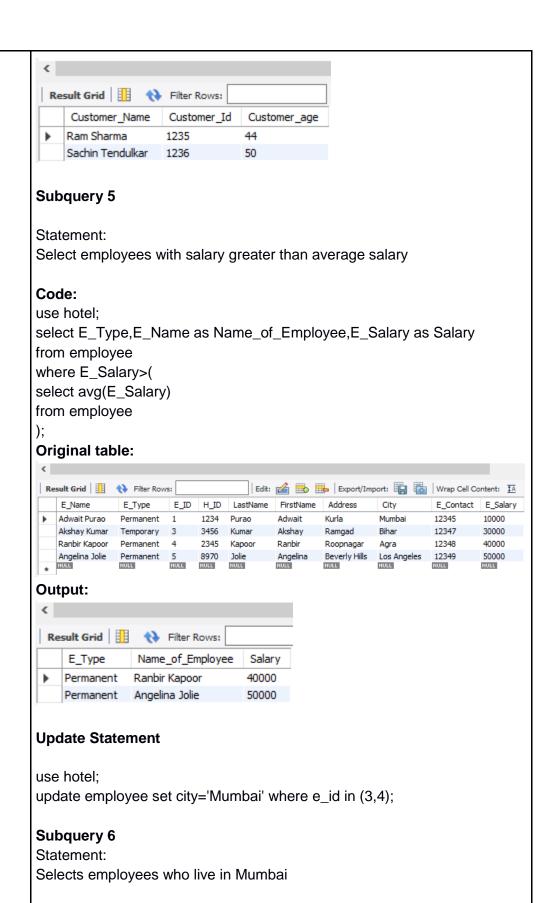
where c_id in(

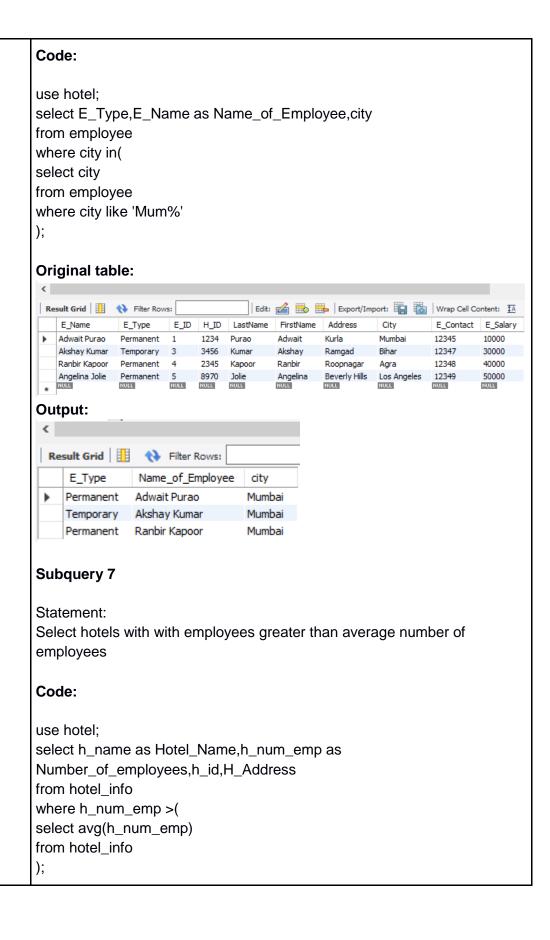
select c_id from customer

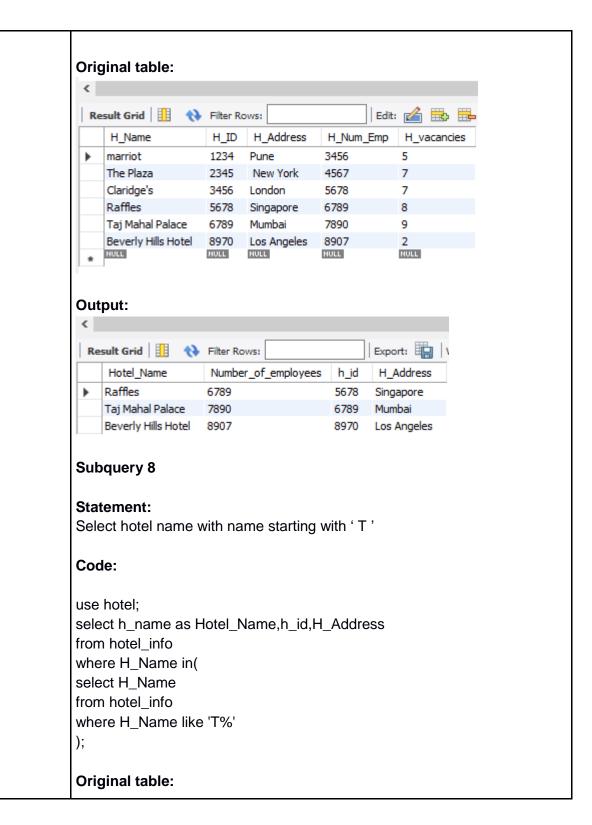
where c_name like 'Ram%');

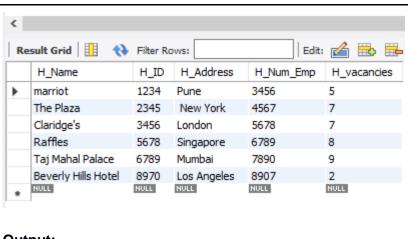
Original table:











Output:



Subquery 9

Statement:

Select price of room with price greater than minimum amount

Code:

use hotel;

select r_no,reservation_no,Amount as Price_of_Room

from reservation

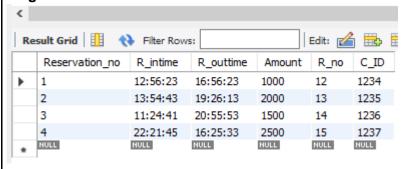
where amount>(

select min(amount)

from reservation

);

Original table:







Subquery 10

Statement:

Select hotels with vacancies lesser than average vacancies

Code:

use hotel;

select h_name as Hotel_Name,h_num_emp as

Number_of_employees,H_vacancies as Vacancy

from hotel_info

where H_vacancies<(

select avg(H_vacancies)

from hotel_info

)

order by vacancy desc;

Original table:



Output:

	<				
	Re	esult Grid 🔢 🙌	Filter Rows:	Exp	
		Hotel_Name	Number_of_employees	Vacancy	
	•	marriot	3456	5	
		Beverly Hills Hotel	8907	2	
				~~~	
Conclusion: We learne					
can get any desired ou					
complex nested subqu			ving the results. w	e got our outpu	t by making use of
subqueries and nesting	g tne	em.			