

KUPPA VENKATA KRISHNA PAANCHAJANYA

Registration No.: 19BCS063

Database Management Systems Lab Assignment 4

Question 1: Write 5 Nested Queries for travel database.

Query –

SELECT first_name, last_name, phone FROM T3_CustomerDetails WHERE customer_id IN (SELECT customer_id FROM T3_BookingDetails WHERE payment_Amount > 30000);

SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE customer_id NOT IN (SELECT customer_id FROM T3_BookingDetails WHERE booking_id IN (SELECT booking_id FROM T3_PackageDetails WHERE package_name='KULU MANALI'));

SELECT customer_id FROM T3_CustomerDetails WHERE customer_id IN (SELECT customer_id FROM T3_BookingDetails WHERE booking_id IN (SELECT booking_id FROM T3_DestinationDetails WHERE hotel_name = 'Raj Palace'));

SELECT package_name, cost FROM T3_PackageDetails WHERE booking_id IN (SELECT booking_id FROM T3_Bus WHERE bus_type = '2 Seater');

SELECT package_name FROM T3_PackageDetails WHERE EXISTS (SELECT * FROM T3_Bus WHERE T3_PackageDetails.booking_id = T3_Bus.booking_id);

Database Output:

The screenshot displays the SQL Server Enterprise Manager interface with the 'T3_Travel' database selected. The 'Results' pane shows the output of five nested queries. The status bar at the bottom indicates 'Query executed successfully' and '10 rows'.

first_name	last_name	phone
Jai	Krishna	919999999912
Prabha	lingaraju	919999999913
Somesh	Thakur	919999999914
Deepak	Chowdary	919999999915
Karthik	Sajan	9199999999189

customer_id	first_name	last_name
0000000011	Jai	Krishna
0000000012	Prabha	lingaraju
0000000013	Somesh	Thakur
0000000014	Deepak	Chowdary
0000000015	Karthik	Sajan

package_name	cost
Manasarovar	50000.00
Manasarovar	50000.00
Manasarovar	50000.00
Manasarovar	50000.00
Manasarovar	50000.00
Manasarovar	50000.00

package_name
Kulu Manali
Kulu Manali
Kulu Manali
Kulu Manali

Question 2: Illustrate how we can use CONCAT and AS operators in SQL Query –

SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM T3_CustomerDetails;

SELECT customer_id, phone AS contact_details FROM T3_CustomerDetails;

SELECT TOP 1 CONCAT(package_name, ' ', package_description) AS package FROM T3_PackageDetails WHERE package_name = 'MANASAROVAR';

Database Output:

The screenshot displays the SQL Server Enterprise Manager interface. The left pane shows the 'Object Explorer' with the 'T3_Travel' database selected. The right pane shows the 'Query Editor' with three SQL queries executed. The 'Results' pane displays the output of these queries.

Query 1: SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM T3_CustomerDetails;

full_name
Kiran Kumar
Charan Rao
Farhan Abdul
Kissan Chary
Laban Seth
Chernan Kumar
Eeshwar Prasad
Raghavendra Swamy

Query 2: SELECT customer_id, phone AS contact_details FROM T3_CustomerDetails;

customer_id	contact_details
0000000021	7993672936
0000000018	919999999122
0000000019	919999999187
0000000015	919999999189
0000000011	91999999912
0000000012	91999999913
0000000013	91999999914
0000000014	91999999915

Query 3: SELECT TOP 1 CONCAT(package_name, ' ', package_description) AS package FROM T3_PackageDetails WHERE package_name = 'MANASAROVAR';

package
Manasarovar: Have a nice glimpse of Nature!

Question 3: Illustrate all the Comparison operators

Query –

SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE age = 21;

SELECT TOP 1 package_name FROM T3_PackageDetails WHERE cost = 25000;

SELECT customer_id FROM T3_CustomerDetails WHERE gender <> 'M';

SELECT TOP 1 bus_id, bus_type FROM T3_Bus WHERE bus_id <> 8714;

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary > 10000;

SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age > 40;

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary < 8000;

SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age < 30;

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary >= 10000;

SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age >= 40;

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary <= 5000;

SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age <= 20;

Database Output:

The image displays three screenshots of the SQL Server Enterprise Manager interface, showing the results of various SQL queries executed against the T3 database. The interface includes a left-hand pane for the Object Explorer, a central query editor, and a bottom pane for the Results tab.

Query 1: The first screenshot shows the results of a query that selects customer_id, first_name, and last_name from T3_CustomerDetails where age is greater than or equal to 21. The results are displayed in a table with 1 row and 3 columns.

customer_id	first_name	last_name
0000000004	Kissan	Chary

Query 2: The second screenshot shows the results of a query that selects employee_id, name, and full_name from T3_EmployeeDetails where salary is greater than or equal to 10000. The results are displayed in a table with 4 rows and 3 columns.

employee_id	name	full_name
01001	P. RAJESH	EeshwarPrasad
01002	A. RAMESH	RaghavendraSwamy
02003	B. SURESH	ShivajiChattrapati
02004	N. NARESH	Prabhalingaraju

Query 3: The third screenshot shows the results of a query that selects customer_id, full_name, and employee_id, name from T3_CustomerDetails where age is less than or equal to 20. The results are displayed in a table with 8 rows and 3 columns.

customer_id	full_name	employee_id	name
0000000007	EeshwarPrasad	01001	P. RAJESH
0000000008	RaghavendraSwamy	01002	A. RAMESH
0000000009	ShivajiChattrapati	02003	B. SURESH
0000000012	Prabhalingaraju	02004	N. NARESH
0000000016	SuvarnaRam		
0000000017	SunderRam		
0000000018	ManaswiniK...		
0000000019	ShreyasKuppa		

Question 4: Illustrate Logical operators except ANY, ALL and LIKE

Query –

SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE age >= 21 AND gender = 'M';

SELECT name FROM T3_EmployeeDetails WHERE salary>=10000 AND designation = 'Driver';

SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE age >= 40 OR gender = 'M'

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary>=10000 OR designation = 'Luggage Manager';

SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE NOT age >= 35;

SELECT bus_id FROM T3_bus WHERE NOT bus_type='Sleeper';

SELECT employee_id, name FROM T3_EmployeeDetails WHERE designation IN ('Driver', 'Cleaner');

SELECT hotel_name FROM T3_DestinationDetails WHERE city IN ('Kulu Manali', 'Burang');

SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary BETWEEN 5000 AND 10000;

SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age BETWEEN 21 AND 40;

Database Output:

The screenshot displays the SQL Server Enterprise Manager interface with a query window open. The query window shows a series of SQL queries and their corresponding results. The results are displayed in a grid format, showing columns and rows of data.

Query 1: SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE age >= 21 AND gender = 'M';

customer_id	first_name	last_name
0000000001	Kiran	Kumar
0000000002	Charan	Rao
0000000003	Fahran	Abdul
0000000004	Kissan	Chary
0000000005	Cheman	Kumar
0000000007	Eeshwar	Prasad

Query 2: SELECT name FROM T3_EmployeeDetails WHERE salary>=10000 AND designation = 'Driver';

name
P. RAJESH
A. RAMESH
B. SURESH
N. NARESH

Query 3: SELECT customer_id, first_name, last_name FROM T3_CustomerDetails WHERE age >= 40 OR gender = 'M';

customer_id	first_name	last_name
0000000001	Kiran	Kumar
0000000002	Charan	Rao
0000000003	Fahran	Abdul
0000000004	Kissan	Chary
0000000005	Laban	Seth
0000000006	Cheman	Kumar

Query 4: SELECT employee_id, name FROM T3_EmployeeDetails WHERE salary>=10000 OR designation = 'Luggage Manager';

employee_id	name
01001	P. RAJESH
01002	A. RAMESH
01007	O. JAYESH
02003	B. SURESH
02004	N. NARESH
02008	P. PARAM...

Query 5: SELECT customer_id, CONCAT(first_name, last_name) AS full_name FROM T3_CustomerDetails WHERE age BETWEEN 21 AND 40;

customer_id	first_name	last_name
0000000001	Kiran	Kumar
0000000002	Charan	Rao
0000000003	Fahran	Abdul
0000000004	Kissan	Chary
0000000005	Laban	Seth
0000000006	Cheman	Kumar

The status bar at the bottom indicates "Query executed successfully." and "localhost (15.0 RTM) | LAPTOP-4IT7ECO\krish ... | T3_Travel | 00:00:00 | 103 rows".

External Tables

Graph Tables

dbo.T3_BookingDetails

dbo.T3_Bus

dbo.T3_Car

dbo.T3_CustomerDetails

dbo.T3_DestinationDetails

dbo.T3_EmployeeDetails

dbo.T3_Flight

dbo.T3_PackageDetails

dbo.T3_Train

Views

External Resources

Synonyms

Programmability

Service Broker

Storage

Security

Team3_AdvocateConsultingFirm

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

Results

Messages

	customer_id	first_name	last_name
1	000000001	Kiran	Kumar
2	000000002	Charan	Rao
3	000000004	Kissan	Chary
4	000000005	Laban	Seth
5	000000010	Chakram	Kumar
6	000000011	Jai	Krishna
7	000000013	Somesh	Thakur
8	000000014	Deepak	Chowdary

	bus_id
1	6938

	employee_id	name
1	01001	P. RAJESH
2	01002	A. RAMESH
3	01005	R. PARESH
4	02003	B. SURESH
5	02004	N. NARESH
6	02006	T. MALLE...

	hotel_name
1	Raj Palace
2	Raj Palace
3	Raj Palace
4	Raj Palace
5	Raj Palace
6	Raj Palace

Query executed successfully.

localhost (15.0 RTM) | LAPTOP-4ITT7EC0\krish... | T3_Travel | 00:00:00 | 94 rows

External Resources

Synonyms

Programmability

Service Broker

Storage

Security

Team3_AdvocateConsultingFirm

Security

Server Objects

Replication

PolyBase

Always On High Availability

Management

Integration Services Catalogs

	employee_id	name
1	01005	R. PARESH
2	01007	O. JAYESH
3	02006	T. MALLE...
4	02008	P. PARAM...

	customer_id	full_name
1	000000001	KiranKumar
2	000000002	CharanRao
3	000000003	FarhanRa...
4	000000004	KissanCh...
5	000000005	ChemanK...
6	000000011	JaiKrishna
7	000000013	SomeshT...
8	000000024	RathoreV...

Query executed successfully.

localhost (15.0 RTM) | LAPTOP-4ITT7EC0\krish... | T3_Travel | 00:00:00 | 94 rows