

## Assignment 06

The screenshot displays the Microsoft SQL Server Management Studio interface. The title bar indicates the file path: U6188089\_Assignment06.sql - (local).ALEXAMARA (DESKTOP-QQG5361\nammy (64)) - Microsoft SQL Server Management Studio. The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar contains various icons for file operations, query execution, and formatting. The Object Explorer on the left shows the database structure for ALEXAMARA, including tables like MarinaSlip and ServiceRequest. The main query editor contains the following SQL code:

```
-- Q1 Write a query to show SlipID that does not request for service.  
  
SELECT SlipID FROM MarinaSlip  
EXCEPT  
SELECT SlipID FROM ServiceRequest
```

The Results pane shows the output of the query, which consists of two rows of SlipID values:

SlipID
9
10

The status bar at the bottom indicates that the query was executed successfully, returning 2 rows. The Windows taskbar at the bottom shows the system clock as 1:05 AM on 3/2/2021.

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```
-- Q2 Write a query to display Distinct Status using SET operation WHERE Status is not "Open".  
  
SELECT Status FROM ServiceRequest  
EXCEPT  
SELECT Status FROM ServiceRequest  
WHERE Status = 'Open'
```

The Results pane shows the output of the query, displaying 10 rows of distinct status values. The first row is highlighted in blue.

Status
Overlap has been created. Installation has been scheduled.
Scheduled
Service call has been scheduled.
Technician has completed the initial filling of the open pockets. Will complete the job after the initial fill has had sufficient time to dry.
Technician has determined that the exchanger is faulty. New exchanger has been ordered.
Technician has scheduled appointment with owner to attempt to verify the problem.
Technician has scheduled repair.
Technician has verified the problem. Air conditioning specialist has been called.
Technician not able to replicate the problem. Air conditioning unit ran fine through multiple tests. Owner to notify technician if the problem recurs.
Technician suspects problem with either propeller or shaft and has scheduled the boat to be pulled from the water for further investigation.

The status bar at the bottom indicates that the query was executed successfully, returning 10 rows. The Windows taskbar at the bottom shows the system clock as 1:06 AM on 3/2/2021.

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```
-- Q3 List all distinct City and State of Owner using SET operation in Descending Order.  
  
SELECT City, State FROM Owner  
UNION  
SELECT City, State FROM Owner  
ORDER BY City DESC, State DESC
```

The Results pane at the bottom displays the output of the query, showing a table with two columns: City and State. The data is as follows:

City	State
Rivard	FL
Lewiston	FL
Kaleva	FL
Glander Bay	FL
Bowton	FL
Bay Shores	FL

The status bar at the bottom indicates that the query was executed successfully, returning 6 rows. The Windows taskbar at the very bottom shows the system clock as 1:07 AM on 3/2/2021.

## Assignment 06

The screenshot displays the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'U6188089\_Assignment06.sql - (local).ALEXAMARA (DESKTOP-QOG5361\nammy (51))'. The Object Explorer on the left shows the server structure, including Databases, Security, and Server Objects. The central query window contains the following SQL code:

```
-- Q4 For each Owner and Marina, list all City using SET operation in Ascending Order -----  
  
SELECT City FROM Owner  
UNION  
SELECT City FROM Marina  
ORDER BY City ASC
```

The Results pane below the query window shows the output of the query, which is a list of 8 cities in ascending order:

City
1 Bay Shores
2 Bowton
3 Brinman
4 Glander Bay
5 Kaleva
6 Lewiston
7 Rivard
8 W Brinman

The status bar at the bottom indicates 'Query executed successfully.' and shows the execution time as 00:00:00 with 8 rows returned. The Windows taskbar at the very bottom shows the system clock as 11:08 AM on 3/2/2021.

## Assignment 06

U6188089\_Assignment06.sql - (local).ALEXAMARA (DESKTOP-QOG5361\nammy (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Connect ALEXAMARA Execute

Object Explorer

- SQL Server 15.0.2000.5 - DESKTOP-QOG5361\nammy (64)
- Databases
  - System Databases
  - Database Snapshots
  - AdventureWorks2014
  - ALEXAMARA
    - Database Diagrams
    - Tables
      - System Tables
      - FileTables
      - External Tables
      - Graph Tables
      - dbo.Marina
      - dbo.MarinaSlip
      - dbo.Owner
      - dbo.ServiceCategory
      - dbo.ServiceRequest
    - Views
    - External Resources
    - Synonyms
    - Programmability
    - Service Broker
    - Storage
    - Security
    - Assignment\_01 (Restoring...)
    - ICTTutorial\_TEST
    - MyDB (Restoring...)
    - myFriends
    - NEWS
    - PremierProducts
    - TestDB
    - TestDB2
  - Security
  - Server Objects
  - Replication

U6188089\_Assignm...5361\nammy (64)

```
-- Q5 For each Owner, get additional column with SlipID and BoatType using APPLY operator
SELECT * FROM Owner
CROSS APPLY(
    SELECT SlipID
    FROM MarinaSlip
    WHERE MarinaSlip.OwnerNum = Owner.OwnerNum
) AS SlipID
CROSS APPLY(
    SELECT BoatType
    FROM MarinaSlip
    WHERE MarinaSlip.OwnerNum = Owner.OwnerNum
) AS BoatType
```

119 %

Results Messages

	OwnerNum	LastName	FirstName	Address	City	State	Zip	SlipID	BoatType
1	AN75	Anderson	Bill	18 Wilcox	Glander Bay	FL	31044	1	Sprite 4000
2	AN75	Anderson	Bill	18 Wilcox	Glander Bay	FL	31044	5	Sprite 4000
3	EL25	Elend	Sandy and Bill	462 Riverside	Rivard	FL	31062	2	Ray 4025
4	KE22	Kelly	Alysa	5271 Waters	Bowton	FL	31313	3	Sprite 4000
5	JU92	Juarez	Maria	8922 Oak	Rivard	FL	31062	4	Dolphin 28
6	AN75	Anderson	Bill	18 Wilcox	Glander Bay	FL	31044	1	Sprite 3000
7	AN75	Anderson	Bill	18 Wilcox	Glander Bay	FL	31044	5	Sprite 3000
8	AD57	Adney	Bruce and Jean	208 Citrus	Bowton	FL	31313	6	Dolphin 25
9	FE82	Feenstra	Daniel	7822 Coventry	Kaleva	FL	32521	7	Dolphin 22
10	SM72	Smeltz	Becky and Dave	922 Garland	Glander Bay	FL	31044	8	Dolphin 25
11	BL72	Blake	Mary	2672 Commodore	Bowton	FL	31313	9	Dolphin 28
12	NO27	Norton	Peter	2811 Lakewood	Lewiston	FL	32765	10	Dolphin 40
13	TR72	Trent	Ashton	922 Crest	Bay Shores	FL	30992	11	Ray 4025

Query executed successfully. (local) (15.0 RTM) | DESKTOP-QOG5361\nammy ... | ALEXAMARA | 00:00:00 | 13 rows

Ready Ln 26 Col 23 Ch 23 INS

Type here to search

1:08 AM 3/2/2021

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```
-- Q6 For each Marina, get Name of Marina and Max rental fee
SELECT Name, M.Max_Rental_Fee FROM Marina
CROSS APPLY(
    SELECT MAX(MarinaSlip.RentalFee) AS Max_Rental_Fee
    FROM MarinaSlip
    WHERE MarinaSlip.MarinaNum = Marina.MarinaNum
) AS M
```

The Results pane at the bottom displays the output of the query, showing two rows of data:

	Name	Max_Rental_Fee
1	Alexamara East	3800.00
2	Alexamara Central	4200.00

The status bar at the bottom indicates that the query was executed successfully, showing the server name (local), version (15.0 RTM), instance name (DESKTOP-QOG5361\nammy), database name (ALEXAMARA), execution time (00:00:00), and the number of rows returned (2 rows).

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```
-- Q7 For every Slip, list the marina number, slip number, boat name, owner number, owner's firstname, and owner's last name.
SELECT MarinaNum, SlipNum, BoatName, O.OwnerNum, O.FirstName, O.LastName FROM MarinaSlip
CROSS APPLY(
    SELECT Owner.OwnerNum, Owner.FirstName, Owner.LastName
    FROM Owner
    WHERE Owner.OwnerNum = MarinaSlip.OwnerNum
) AS O
```

The Results pane at the bottom shows the output of the query, displaying 11 rows of data. The columns are MarinaNum, SlipNum, BoatName, OwnerNum, FirstName, and LastName. The status bar at the bottom indicates that the query was executed successfully, returning 11 rows.

MarinaNum	SlipNum	BoatName	OwnerNum	FirstName	LastName
1	A1	Anderson II	AN75	Bill	Anderson
1	A2	Our Toy	EL25	Sandy and Bill	Elend
1	A3	Escape	KE22	Alyssa	Kelly
1	B1	Gypsy	JU92	Maria	Juarez
1	B2	Anderson III	AN75	Bill	Anderson
2	1	Bravo	AD57	Bruce and Jean	Adney
2	2	Chinook	FE82	Daniel	Feenstra
2	3	Listy	SM72	Becky and Dave	Smeltz
2	4	Mermaid	BL72	Mary	Blake
2	5	Axxon II	NO27	Peter	Norton
2	6	Karvel	TR72	Ashton	Trent