

Question 1:

SQLQuery1.sql - w...AD\mchhabr5 (87))\*

```
--Question 1
SELECT
    'Highest Daily Rate' AS Category,
    'A' AS BuildingNumber,
    CAST(MAX(DailyRate) AS INT) AS DailyRate
FROM
    Condo
WHERE
    BldgNum = 'A'
UNION ALL
SELECT
    'Lowest Daily Rate' AS Category,
    'B' AS BuildingNumber,
    CAST(MIN(DailyRate) AS INT) AS DailyRate
FROM
    Condo
WHERE
    BldgNum = 'B'
UNION ALL
SELECT
    'Average Daily Rate' AS Category,
    'C' AS BuildingNumber,
    CAST(AVG(DailyRate) AS INT) AS DailyRate
FROM
    Condo
WHERE
    BldgNum = 'C'
ORDER BY
    BuildingNumber;
```

100 %

Results Messages

	Category	BuildingNumber	DailyRate
1	Highest Daily Rate	A	160
2	Lowest Daily Rate	B	110
3	Average Daily Rate	C	138

## Question 2:

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays the following SQL script:

```
--Question 2
CREATE VIEW Top_Housekeeper_View AS
SELECT TOP 3
    HKID,
    COUNT(*) AS [Total Schedule]
FROM
    Cleaning
WHERE
    YEAR(DateCleaned) = 2021 AND MONTH(DateCleaned) = 8
GROUP BY
    HKID
ORDER BY
    COUNT(*) DESC;
GO
SELECT * FROM Top_Housekeeper_View;
```

The bottom pane shows the results of the query, displaying a table with 3 rows and 2 columns: HKID and Total Schedule.

	HKID	Total Schedule
1	MC02	6
2	ES01	5
3	JP01	5

## Question 3

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays the following SQL script:

```
--Question 3
SELECT e.EmpID, e.HireDate, e.fname + ' ' + e.lname AS 'Housekeeper', m.fname + ' ' + m.lname AS 'Manager'
FROM Top_Housekeeper_View h, Employee e, Employee m
WHERE h.HKID = e.EmpID and e.mgrNum = m.EmpID
```

The bottom pane shows the results of the query, displaying a table with 4 columns: EmpID, HireDate, Housekeeper, and Manager.

	EmpID	HireDate	Housekeeper	Manager
1	MC02	2019-06-25	Candy Miles	Jennifer Crawley
2	ES01	2013-09-01	Sarah Elliot	Jennifer Crawley
3	JP01	2020-06-20	Jenny Patel	Jennifer Crawley

#### Question 4:

SQLQuery4.sql - w...AD\mchhabr5 (67)\* X SQLQuery3.sql - w...AD\mchhabr5 (107) SQLQuery2.sql - w...AD\mchhabr5 (59) SQLQuery1.sql

```
--Question 4
WITH Top_Housekeeper_CTE AS
(SELECT TOP 3 HKID, COUNT(ScheduleID) AS 'Total Schedule'
FROM CLEANING
WHERE YEAR(DateCleaned) = 2021 AND MONTH(DateCleaned) = 8
GROUP BY HKID
ORDER BY 2 DESC)
SELECT e.EmpID, e.HireDate, e.fname + ' ' + e.lname AS 'Housekeeper', m.fname + ' ' + m.lname AS 'Manager'
FROM Top_Housekeeper_CTE h, Employee e, Employee m
WHERE h.HKID = e.EmpID and e.mgrNum = m.EmpID
```

100 %

Results Messages

	EmpID	HireDate	Housekeeper	Manager
1	MC02	2019-06-25	Candy Miles	Jennifer Crawley
2	ES01	2013-09-01	Sarah Elliot	Jennifer Crawley
3	JP01	2020-06-20	Jenny Patel	Jennifer Crawley

#### Question 5:

SQLQuery5.sql - w...AD\mchhabr5 (114)\* X SQLQuery4.sql - w...AD\mchhabr5 (67) SQLQuery3.sql - w...AD\mchhabr5 (107) SQLQuery2.sql - w...

```
--Question 5
SELECT e.EmpID, e.HireDate, e.FName + ' ' + e.LName AS 'Housekeeper', m.FName + ' ' + m.LName AS 'Manager'
FROM (SELECT TOP 3 HKID, COUNT(*) AS 'Total Schedule'
FROM Cleaning
WHERE YEAR(DateCleaned) = 2021 AND MONTH(DateCleaned) = 8
GROUP BY HKID
ORDER BY 2 DESC) C
INNER JOIN Employee e
ON e.EmpID = C.HKID
INNER JOIN Employee m
ON e.MgrNum = m.EmpID;
```

100 %

Results Messages

	EmpID	HireDate	Housekeeper	Manager
1	MC02	2019-06-25	Candy Miles	Jennifer Crawley
2	ES01	2013-09-01	Sarah Elliot	Jennifer Crawley
3	JP01	2020-06-20	Jenny Patel	Jennifer Crawley

Question 6:

SQLQuery7.sql - w...AD\mchhabr5 (142))\* SQLQuery6.sql - w...AD\mchhabr5 (136)) SQLQuery5.sql - w...

```
--Question 6
WITH Housekeeper_CTE AS
(SELECT HKID AS 'EmployeeID', COUNT(*) AS 'TaskCount'
FROM Cleaning
GROUP BY HKID),
Guide_CTE AS
(SELECT GuideID AS 'EmployeeID', COUNT(*) AS 'TaskCount'
FROM Reservation
GROUP BY GuideID)
SELECT 'Housekeeper' AS ' ', EmployeeID, TaskCount FROM Housekeeper_CTE
WHERE TaskCount = (SELECT MAX(TaskCount) FROM Housekeeper_CTE)
UNION ALL
SELECT 'Guide' AS ' ', EmployeeID, TaskCount FROM Guide_CTE
WHERE TaskCount = (SELECT MAX(TaskCount) FROM Guide_CTE)
```

100 %

Results Messages

		EmployeeID	TaskCount
1	Housekeeper	MC02	32
2	Guide	DH01	18
3	Guide	KS02	18

### Question 7:

SQLQuery7.sql - w...AD\mchhabr5 (142)) \* SQLQuery6.sql - w...AD\mchhabr5 (136)) SQLQuery5.sql - w...AD\mchhabr5 (114))

```
--Question 7
WITH Res_CTE AS
(
    SELECT EmpID, Description, RDate, ROW_NUMBER() OVER(PARTITION BY EmpID ORDER BY RDate DESC) AS RowNo
    FROM Reservation r, Activity a
    WHERE r.ActID = a.ActID
    AND EmpID IS NOT NULL
)
SELECT EmpID, Description, RDate
FROM Res_CTE
WHERE RowNo = 1;
```

100 %

Results Messages

	EmpID	Description	RDate
1	CG01	Whitefield	2023-05-10
2	JH01	Whitefield	2023-05-11
3	JJ01	Bradbury - West Peak	2023-03-06
4	MC01	4 Eagle Ranch	2023-04-21
5	OL01	Whitefield	2023-05-19

Question 8:

SQLQuery8.sql - w...AD\mchhabr5 (83))\* X SQLQuery7.sql - w...AD\mchhabr5 (142)) SQLQuery6.sql - w...AD\mc

```
--Question 8
WITH RankedReservations AS (
    SELECT
        r.EmpID,
        r.ActID,
        a.Description,
        r.Rdate,
        a.Distance,
        RANK() OVER (PARTITION BY EmpID ORDER BY Distance) AS RankNo
    FROM
        Reservation r, ACTIVITY a
    WHERE r.ActID=a.ActID
        AND EmpID IS NOT NULL)
SELECT EmpId, ActID, Description, RDate, Distance
FROM RankedReservations
WHERE RankNo=1;
```

100 %

Results Messages

	EmpId	ActID	Description	RDate	Distance
1	CG01	H8	Whitefield	2023-05-10	6
2	JH01	H8	Whitefield	2023-05-11	6
3	JH01	H8	Whitefield	2023-03-14	6
4	JJ01	B6	Bradbury - West Peak	2023-03-06	5
5	MC01	HB1	4 Eagle Ranch	2023-04-21	10
6	OL01	H8	Whitefield	2023-05-19	6