

Q1.

The screenshot displays the SQL Server Enterprise Manager interface. At the top, two tabs are visible: 'SQLQuery2.sql - w...AD\mchhabr5 (83))\*' and 'SQLQuery1.sql - w...AD\mchhabr5 (170))'. The active tab shows a SQL query labeled '--Question 1'. The query is a SELECT statement that joins the 'HOUSEKEEPER' table (h) with the 'EMPLOYEE' table (e) on the condition h.HKID = e.EmpID. It filters for employees with a status of 'Temp' and a hire date greater than '2018-01-01'. The selected columns are h.HKID (aliased as EmployeeID), e.Fname (aliased as FirstName), e.Lname (aliased as LastName), h.Status, and h.Shift. Below the query editor, the 'Results' tab is active, showing a table with two rows of data. The first row corresponds to Jenny Patel (EmployeeID JP01, Shift 2), and the second row corresponds to Amy Lopez (EmployeeID LA01, Shift 3). Both are listed as 'Temp' status.

```
--Question 1
SELECT
    h.HKID AS EmployeeID,
    e.Fname AS FirstName,
    e.Lname AS LastName,
    h.Status,
    h.Shift
FROM
    dbo.HOUSEKEEPER h
INNER JOIN dbo.EMPLOYEE e ON h.HKID = e.EmpID
WHERE
    h.Status = 'Temp' AND
    e.Hiredate > '2018-01-01';
```

	EmployeeID	FirstName	LastName	Status	Shift
1	JP01	Jenny	Patel	Temp	Shift 2
2	LA01	Amy	Lopez	Temp	Shift 3

Q2.

SQLQuery2.sql - w...AD\mchhabr5 (83))\* X SQLQuery1.sql - w...AD\mchhabr5 (170))

```
--Question 2
SELECT
    g.FName + ' ' + g.LName AS 'Guest Name',
    e.Fname AS 'Guide',
    r.ResID AS 'Reservation ID',
    r.Rdate AS 'Reservation Date',
    r.ActID AS 'Activity ID'
FROM
    dbo.RESERVATION r
INNER JOIN
    dbo.GUEST g ON r.GuestID = g.GuestID
INNER JOIN
    dbo.GUIDE gu ON r.GuideID = gu.GuideID
INNER JOIN
    dbo.EMPLOYEE e ON gu.GuideID = e.EmpID
WHERE
    g.LName = 'Montana'
    AND (e.Fname = 'Gayle')
ORDER BY
    r.ResID ASC;
```

100 %

Results Messages

	Guest Name	Guide	Reservation ID	Reservation Date	Activity ID
1	Ben Montana	Gayle	16	2022-07-13	B9
2	Ben Montana	Gayle	65	2021-07-11	B9
3	Ben Montana	Gayle	122	2023-07-13	B9

Q3.

SQLQuery3.sql - w...AD\mchhabr5 (99))\* X SQLQuery2.sql - w...AD\mchhabr5 (83)) SQLQuery1.sql - w...AD\mchhabr5 (83))

```

SELECT
    ActivityDetails.ActID AS 'Activity ID',
    ActivityDetails.Description,
    ActivityDetails.ReservationCount AS 'Total Reservation Count',
    ActivityDetails.TotalParticipants AS 'Total Participant',
    CAST(ActivityDetails.PPP AS DECIMAL(10,2)) AS PPP,
    ActivityDetails.TotalActivityAmount AS 'Total Activity Amount'
FROM (
    SELECT
        a.ActID,
        a.Description,
        COUNT(*) AS ReservationCount,
        SUM(r.NumberInParty) AS TotalParticipants,
        AVG(a.PPP) AS PPP,
        SUM(r.NumberInParty * a.PPP) AS TotalActivityAmount,
        DENSE_RANK() OVER (ORDER BY COUNT(*) DESC) AS rnk
    FROM
        dbo.RESERVATION r
    INNER JOIN
        dbo.ACTIVITY a ON r.ActID = a.ActID
    WHERE
        YEAR(r.RDate) = 2021
    GROUP BY
        a.ActID, a.Description
) AS ActivityDetails
WHERE
    ActivityDetails.rnk <= 3;
  
```

100 %

Results Messages

	Activity ID	Description	Total Reservation Count	Total Participant	PPP	Total Activity Amount
1	R8	Lower Gore Creek	5	23	25.00	575.00
2	H3	Spruce Saddle Loop	4	18	5.00	90.00
3	HB1	4 Eagle Ranch	3	15	30.00	450.00
4	B4	Vail Village	3	14	10.00	140.00
5	HB5	Westfield River Loop	3	13	30.00	390.00
6	R1	Upper Colorado River	3	14	25.00	350.00

Q4.

SQLQuery14.sql -...AD\mchhabr5 (137))\* SQLQuery13.sql -...AD\mchhabr5 (134))\* SQLQue

```
--Question 4

SELECT
    EmpID,
    CONCAT(LName, ' ', FName) AS Name,
    Salary,
    MgrNum,
    Department
FROM
    Employee
WHERE
    Salary > (SELECT AVG(Salary) FROM Employee)
    AND EmpID IN (
        SELECT DISTINCT EmpID
        FROM Employee
```

100 %

Results Messages

	EmpID	Name	Salary	MgrNum	Department
1	CG01	Connor Geoffrey	150000.00	NE01	HR
2	JH01	Jackson Holly	145000.00	NE01	Facility
3	MC01	Mars Crystal	105000.00	NE01	Operations
4	MC10	Chhabra Maherdeep	100000.00	NE01	Technology
5	MJ01	Marzeen Jonny	150000.00	NE01	Marketing
6	NE01	Neilson Evan	185000.00	NULL	GM

Q5.

SQLQuery5.sql - w...AD\mchhabr5 (60))\* X SQLQuery4.sql - w...AD\mchhabr5

```
--Question 5
SELECT
    GUEST.GuestID,
    GUEST.FName,
    GUEST.LName,
    GUEST.SpouseFName,
    FAMILY.GuestID AS Children
FROM
    dbo.GUEST
LEFT JOIN Family ON GUEST.GuestID=FAMILY.GuestID
WHERE
    State LIKE 'CA'
    AND FAMILY.GuestID IS NULL;
```

100 %

Results Messages

	GuestID	FName	LName	SpouseFName	Children
1	G24	Tony	Miles	Lesly	NULL
2	G25	Vance	Applegate	Tammy	NULL
3	G26	Robert	Sanghi	Sally	NULL

Q6.

SQLQuery6.sql - w...AD\mchhabr5 (93))\* X SQLQuery5.sql - w...AD\mchh

```
--Question 6
SELECT
    g.GuestID,
    g.FName AS Fname,
    g.LName AS Lname,
    g.SpouseFName AS Spousefname
FROM
    dbo.GUEST g
WHERE
    g.State = 'CA'
    AND g.GuestID NOT IN (
        SELECT f.GuestID
        FROM dbo.FAMILY f
    );
```

100 %

Results Messages

	GuestID	Fname	Lname	Spousefname
1	G24	Tony	Miles	Lesly
2	G25	Vance	Applegate	Tammy
3	G26	Robert	Sanghi	Sally

Q7.

SQLQuery7.sql - w...AD\mchhabr5 (62))\* X SQLQuery6.sql - w...AD\mchhabr5 (62))\* X

```
--Question 7
SELECT
    g.GuestID,
    g.FName AS FName,
    g.LName AS Lname,
    g.SpouseFName AS Spousefname
FROM
    dbo.GUEST g
WHERE
    g.State = 'CA'
    AND NOT EXISTS (
        SELECT 1
        FROM dbo.FAMILY f
        WHERE f.GuestID = g.GuestID
    );
```

100 %

Results Messages

	GuestID	Fname	Lname	Spousefname
1	G24	Tony	Miles	Lesly
2	G25	Vance	Applegate	Tammy
3	G26	Robert	Sanghi	Sally

Q8.

Step 1

SQLQuery8.sql - w...AD\mchhabr5 (123))\* × SQLQuery7.sql - w...AD

```
--Question 8 Part 1
SELECT
    bldgnum,
    unitnum
FROM
    CONDO
WHERE
    bldgnum = 'C'
    AND unitnum LIKE '3%'
    AND bdrms = 2;
```

100 %

Results Messages

	bldgnum	unitnum
1	C	301
2	C	302
3	C	304



## Step 2

SQLQuery10.sql - ...UAD\mchhabr5 (75))\* SQLQuery8.sql - w...AD\mchhabr5 (123))\*

```
--Question 8 Step 2
SELECT GuestID, StartDate, EndDate, UnitNum
FROM BOOKING
WHERE YEAR(StartDate)=2022
AND CONCAT(BldgNum, UnitNum) IN (
SELECT CONCAT(BldgNum, UnitNum)
FROM
    CONDO
WHERE
    bldgnum = 'C'
    AND unitnum LIKE '3%'
    AND bdrms = 2
);
```

100 %

Results Messages

	GuestID	StartDate	EndDate	UnitNum
1	G14	2022-06-10	2022-06-17	302
2	G17	2022-05-20	2022-05-27	304
3	G23	2022-08-26	2022-09-02	302

Q9.

SQLQuery11.sql -...AD\mchhabr5 (103))\* SQLQuery10.sql -...UAD\mchhabr5 (75))

```
--Question 9
SELECT
    e.EmpID,
    CONCAT(e.FName, ' ', e.LName) AS Name,
    COUNT(*) AS ReservationCount
FROM
    Reservation r
LEFT JOIN
    Employee e ON r.EmpID = e.EmpID
WHERE
    YEAR(r.Rdate) = 2023
GROUP BY
    e.EmpID, CONCAT(e.FName, ' ', e.LName);
```

100 %

Results Messages

	EmpID	Name	ReservationCount
1	NULL		43
2	MC01	Crystal Mars	1
3	CG01	Geoffrey Connor	1
4	JH01	Holly Jackson	4
5	JJ01	Joy Judas	1
6	OL01	Luke Olson	1

Q10.

SQLQuery1.sql - w...AD\mchhabr5 (67))\*

```
--Question 10
SELECT
    CONCAT(e.FName, ' ', e.LName) AS 'Employee Name',
    e.Department AS 'Department',
    e.Hiredate AS 'Employee Hire Date',
    CONCAT(m.FName, ' ', m.LName) AS 'Manager Name',
    m.Hiredate AS 'Manager Hire Date'
FROM
    Employee e
LEFT JOIN
    Employee m ON e.MgrNum = m.EmpID
WHERE
    e.EType LIKE 'G';
```

100 %

Results Messages

	Employee Name	Department	Employee Hire Date	Manager Name	Manager Hire Date
1	Miles Abrams	Operations	2012-06-03	Zach Gregory	2012-11-04
2	Rita Boyers	Operations	2012-03-04	Sonny Kingman	2014-07-06
3	Harley Devon	Operations	2012-01-08	Sonny Kingman	2014-07-06
4	Zach Gregory	Operations	2012-11-04	Crystal Mars	2013-06-03
5	Susan Kiley	Operations	2013-04-08	Zach Gregory	2012-11-04
6	Sam Kelly	Operations	2013-06-10	Lori Stevens	2014-06-04
7	Sonny Kingman	Operations	2014-07-06	Crystal Mars	2013-06-03
8	Crystal Mars	Operations	2013-06-03	Evan Neilson	2010-06-03
9	Ray Marston	Operations	2013-09-14	Susan Kiley	2013-04-08
10	Hal Rowan	Operations	2014-05-02	Lori Stevens	2014-06-04
11	Lori Stevens	Operations	2014-06-04	Crystal Mars	2013-06-03
12	Gayle Unser	Operations	2014-07-01	Susan Kiley	2013-04-08