Q1.

SQLQuery1.sql - w...AD\mchhabr5 (73))*

```
--question 1
SELECT *
FROM Reservation
WHERE ActID LIKE 'HB%'
AND RDate BETWEEN '2021-01-01' AND '2021-12-31'
AND GuideID NOT IN ('RH01', 'MR01');
```

100 %

Results | Messages

	ResID	GuestID	EmpID	ActID	GuideID	RDate	NumberInParty
1	69	G18	NULL	HB5	KS02	2021-05-19	6
2	73	G17	NULL	HB5	KS02	2021-07-14	3
3	83	G12	NULL	HB1	KS02	2021-07-26	7
4	88	G13	NULL	HB5	KS02	2021-07-19	4
5	90	G1	NULL	HB1	KS02	2021-07-21	4
6	96	G8	NULL	HB1	KS02	2021-08-22	4
7	100	G23	NULL	HB4	KS03	2021-08-26	6

Q2.

SQLQuery9.sql - w...AD\mchhabr5 (118))* | SQLQuery8.sql - w...AD\mchhabr5 (81)) | SQLQuery7.sql

```
SELECT
    MAX(DATEDIFF(year, Hiredate, GETDATE())) as 'Most Years',
    MIN(DATEDIFF(year, Hiredate, GETDATE())) as 'Last Years',
    CAST(AVG(DATEDIFF(year, Hiredate, GETDATE())) as int) as 'Average Years'
FROM
    EMPLOYEE;
```

100 %

Results | Messages

	Most Years	Last Years	Average Years
1	14	1	9

Q3.

SQLQuery3.sql - w...AD\mchhabr5 (75))* | SQLQuery2.sql - w...AD\mchhabr5 (130))

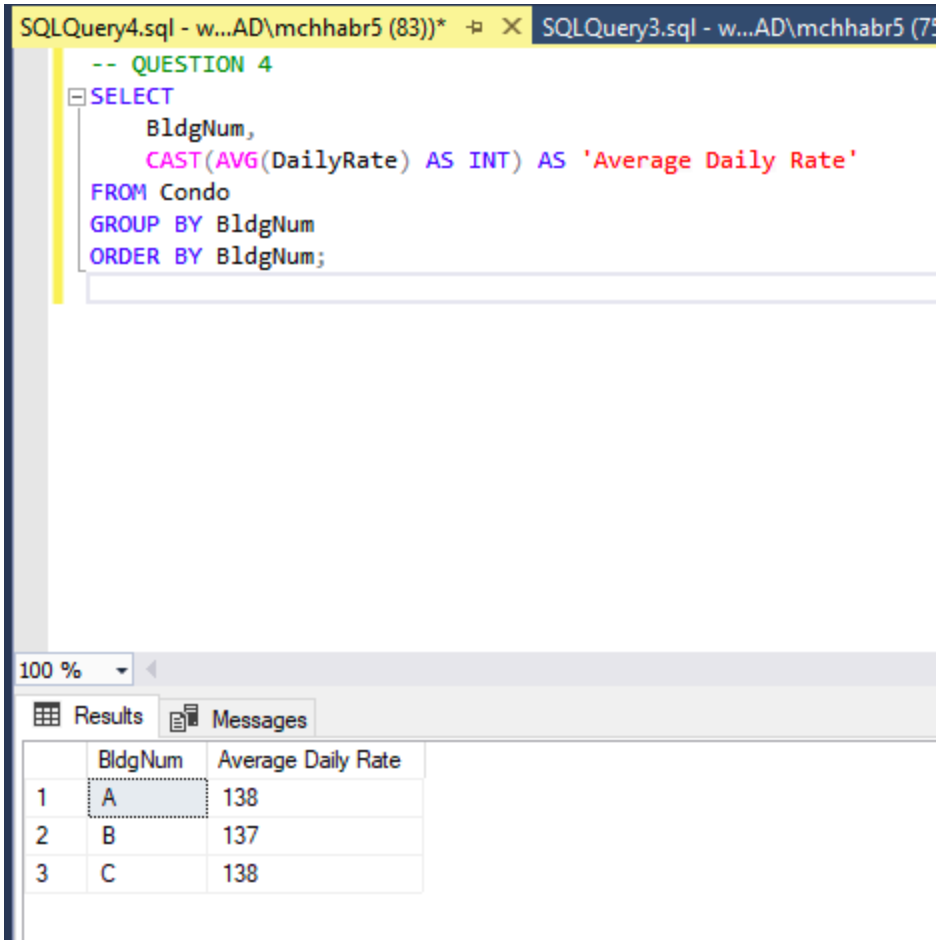
```
--QUESTION 3
SELECT *
FROM Condo
WHERE (BldgNum = 'C' AND Bdrms = 2 AND DailyRate > 130)
   OR (BldgNum = 'B' AND Bdrms = 3 AND DailyRate > 145);
```

100 %

Results | Messages

	BldgNum	UnitNum	SqrFt	Bdrms	Baths	DailyRate
1	B	105	1575	3	2	160.00
2	B	305	1575	3	2	160.00
3	C	102	1164	2	2	145.00
4	C	104	1164	2	2	145.00
5	C	202	1164	2	2	145.00
6	C	204	1164	2	2	145.00
7	C	302	1164	2	2	145.00
8	C	304	1164	2	2	145.00

Q4.


SQLQuery4.sql - w...AD\mchhabr5 (83))*
SQLQuery3.sql - w...AD\mchhabr5 (7
-- QUESTION 4
SELECT
BldgNum,
CAST(AVG(DailyRate) AS INT) AS 'Average Daily Rate'
FROM Condo
GROUP BY BldgNum
ORDER BY BldgNum;
100 %
Results
Messages
BldgNum
Average Daily Rate
1
A
138
2
B
137
3
C
138

Q5.

SQLQuery5.sql - w...AD\mchhabr5 (136))* | SQLQuery4.sql - w...AD\mchhabr

```
--QUESTION 5
SELECT
    GuestID,
    YEAR(StartDate) AS 'Year',
    COUNT(*) AS 'No of Visits'
FROM
    Booking
GROUP BY
    GuestID, YEAR(StartDate)
HAVING
    COUNT(*) > 5
ORDER BY
    YEAR(StartDate) ASC, GuestID;
```

100 %

Results | Messages

	GuestID	Year	No of Visits
1	G10	2021	6
2	G10	2022	8
3	G9	2022	6

Q6.

SQLQuery6.sql - w...AD\mchhabr5 (143))* | SQLQuery5.sql - w...AD\mchhabr5 (136))

```
--QUESTION 6
SELECT
    guestid,
    bldgnum,
    unitnum,
    startdate,
    enddate,
    COUNT(*) AS 'Duplicate Count'
FROM
    Booking
GROUP BY
    guestid,
    bldgnum,
    unitnum,
    startdate,
    enddate
HAVING
    COUNT(*) > 1;
```

100 %

Results | Messages

	guestid	bldgnum	unitnum	startdate	enddate	Duplicate Count
1	G21	A	203	2021-07-06	2021-07-13	2

Q7.

SQLQuery9.sql - w...AD\mchhabr5 (118))* SQLQuery8.sql - w...AD\mchhabr5 (81))

```
--question 7
SELECT TOP 4 WITH TIES ActID AS 'Activity ID',
    COUNT(*) AS 'Reservation Count',
    SUM(NumberInParty) AS 'Party Count'
FROM RESERVATION
WHERE YEAR(Rdate) = 2021
GROUP BY ActID
ORDER BY COUNT(*) DESC, SUM(NumberInParty) DESC;
```

100 %

Results Messages

	Activity ID	Reservation Count	Party Count
1	R8	5	23
2	H3	4	18
3	HB1	3	15
4	B4	3	14
5	R1	3	14

Q8.

SQLQuery8.sql - w...AD\mchhabr5 (62))* | SQLQuery7.sql - w...AD\mchhabr5 (147))

```sql
-- Question 8
SELECT
    ActID,
    SUM(NumberInParty) AS 'Party Count',
    COUNT(ResID) AS 'Reservation Count'
FROM
    dbo.RESERVATION
WHERE
    YEAR(RDate) = 2021 AND
    ActID LIKE 'HB%'
GROUP BY
    ActID
ORDER BY
    ActID;
```

100 %

Results | Messages

	ActID	Party Count	Reservation Count
1	HB1	15	3
2	HB2	5	1
3	HB3	5	1
4	HB4	6	1
5	HB5	13	3

Q9.

SQLQuery9.sql - w...AD\mchhabr5 (52))* | SQLQuery8.sql - w...AD\mchhabr5 (62)) | SQLQuery7.sql - w...

```
-- Question 9
SELECT
    ActID,
    guestid,
    guideid,
    SUM(NumberInParty) OVER (PARTITION BY ActID) AS 'Party Count',
    COUNT(ResID) OVER (PARTITION BY ActID) AS 'Reservation Count'
FROM
    dbo.RESERVATION
WHERE
    YEAR(RDate) = 2021 AND
    ActID LIKE 'HB%'
```

100 %

Results | Messages

	ActID	guestid	guideid	Party Count	Reservation Count
1	HB1	G12	KS02	15	3
2	HB1	G1	KS02	15	3
3	HB1	G8	KS02	15	3
4	HB2	G5	MR01	5	1
5	HB3	G20	RH01	5	1
6	HB4	G23	KS03	6	1
7	HB5	G18	KS02	13	3
8	HB5	G17	KS02	13	3
9	HB5	G13	KS02	13	3

Q10.

SQLQuery1.sql - w...AD\mchhabr5 (121))*

```
--question 10
SELECT
    guideid,
    ActID,
    guestid,
    SUM(NumberInParty) OVER (PARTITION BY guideid) AS 'Party Count',
    COUNT(*) OVER (PARTITION BY guideid) AS 'Reservation Count'
FROM
    dbo.RESERVATION
WHERE
    YEAR(RDate) = 2021 and ActID like 'HB%'
ORDER BY
    guideid;
```

100 %

Results | Messages

	guideid	ActID	guestid	Party Count	Reservation Count
1	KS02	HB1	G12	28	6
2	KS02	HB5	G13	28	6
3	KS02	HB1	G1	28	6
4	KS02	HB1	G8	28	6
5	KS02	HB5	G18	28	6
6	KS02	HB5	G17	28	6
7	KS03	HB4	G23	6	1
8	MR01	HB2	G5	5	1
9	RH01	HB3	G20	5	1

Q11.

SQLQuery2.sql - w...AD\mchhabr5 (56))* | SQLQuery1.sql - w...AD\mchhabr5 (121))

```
--question 11
SELECT
    MONTH(rdate) AS 'Month',
    actid,
    guestid,
    COUNT(*) OVER (PARTITION BY MONTH(RDate), actid) AS 'Total Reservation Count'
FROM
    dbo.RESERVATION
WHERE
    YEAR(rdate) = 2021 and ActID like 'HB%'
ORDER BY
    MONTH(rdate),
    actid;
```

100 %

Results | Messages

	Month	actid	guestid	Total Reservation Count
1	5	HB5	G18	1
2	6	HB3	G20	1
3	7	HB1	G12	2
4	7	HB1	G1	2
5	7	HB5	G13	2
6	7	HB5	G17	2
7	8	HB1	G8	1
8	8	HB2	G5	1
9	8	HB4	G23	1

Q12.

SQLQuery3.sql - w...AD\mchhabr5 (126))* | SQLQuery2.sql - w...AD\mchhabr5 (56)) | SQLQuery1.sql - w...AD\mchhabr5 (121))

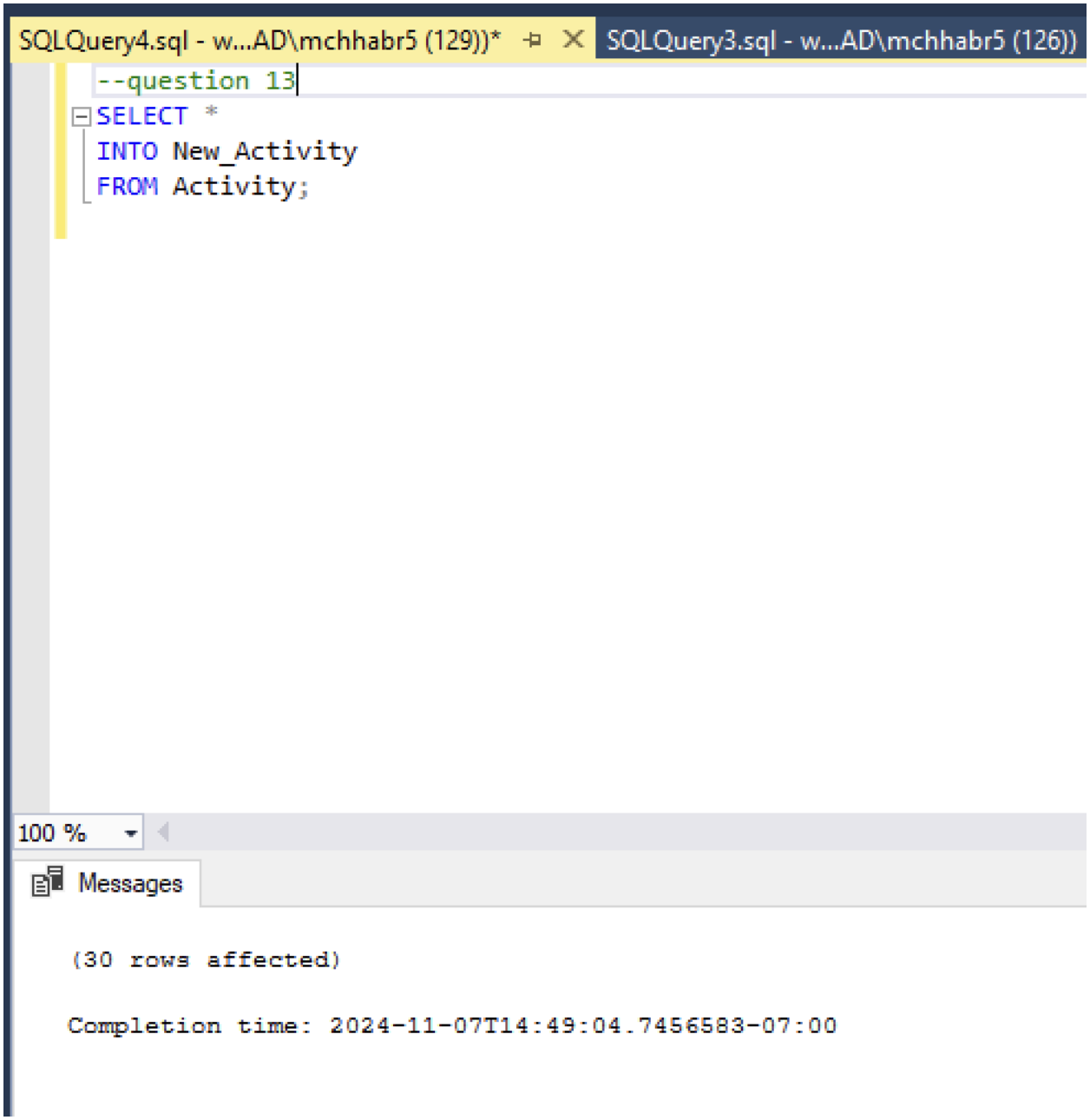
```
--question 12
SELECT
    CASE
        WHEN BldgNum = 'A' THEN 'Lowest Daily Rate'
        WHEN BldgNum = 'B' THEN 'Highest Daily Rate'
        WHEN BldgNum = 'C' THEN 'Average Daily Rate'
    END AS Category,
    BldgNum AS 'Building Number',
    CASE
        WHEN BldgNum = 'A' THEN (SELECT CAST(MIN(DailyRate) AS INT) FROM Condo WHERE BldgNum = 'A')
        WHEN BldgNum = 'B' THEN (SELECT CAST(MAX(DailyRate) AS INT) FROM Condo WHERE BldgNum = 'B')
        WHEN BldgNum = 'C' THEN (SELECT CAST(AVG(DailyRate) AS INT) FROM Condo WHERE BldgNum = 'C')
    END AS 'Daily Rate'
FROM
    (SELECT DISTINCT BldgNum FROM Condo) AS Buildings;
```

100 %

Results | Messages

	Category	Building Number	Daily Rate
1	Lowest Daily Rate	A	110
2	Highest Daily Rate	B	160
3	Average Daily Rate	C	138

Q13:


SQLQuery4.sql - w...AD\mchhabr5 (129))*
SQLQuery3.sql - w...AD\mchhabr5 (126))
--question 13
SELECT *
INTO New_Activity
FROM Activity;
100 %
Messages
(30 rows affected)
Completion time: 2024-11-07T14:49:04.7456583-07:00

SQLQuery5.sql - w...AD\mchhabr5 (89))* | SQLQuery4.sql - w...AD\mchhabr5 (129))

```
--question 13
SELECT * FROM New_Activity;
```

100 %

Results | Messages

	ActID	Description	Hours	PPP	Distance	Type
1	B1	Beaver Creek Mountain	3	15.00	6	Bike
2	B2	Avon	3	15.00	10	Bike
3	B3	White River National Park	4	20.00	12	Bike
4	B4	Vail Village	2	10.00	8	Bike
5	B5	Eagle Valley	2	10.00	9	Bike
6	B6	Bradbury - West Peak	4	15.00	5	Bike
7	B7	Adams Park Loop	2	5.00	1	Bike
8	B8	Welch Trail Ride	4	25.00	15	Bike
9	B9	Masons Farm	3	15.00	12	Bike
10	H1	Eagle Falls	4	15.00	5	Hike
11	H2	Vail Mountain	2	10.00	3	Hike
12	H3	Spruce Saddle Loop	1	5.00	2	Hike
13	H4	Nottingham Park	1	5.00	1	Hike
14	H5	Cordillera	3	10.00	4	Hike
15	H6	Bradbury - North Peak	4	15.00	8	Hike

SQLQuery6.sql - w...AD\mchhabr5 (112))* | SQLQuery5.sql - w...AD\mchhabr5 (89)) | SQLQuery4.sql - w...

```
--question 13
SELECT *
FROM New_Activity
WHERE (Type = 'Bike' AND Hours = 4)
   OR (Type = 'Hike' AND PPP = 10)
   OR (Type = 'Horseback');
```

100 %

Results | Messages

	ActID	Description	Hours	PPP	Distance	Type
1	B3	White River National Park	4	20.00	12	Bike
2	B6	Bradbury - West Peak	4	15.00	5	Bike
3	B8	Welch Trail Ride	4	25.00	15	Bike
4	H2	Vail Mountain	2	10.00	3	Hike
5	H5	Cordillera	3	10.00	4	Hike
6	H7	McLennan Reserve	2	10.00	6	Hike
7	HB1	4 Eagle Ranch	4	30.00	10	Horseback
8	HB2	Black Mountain Ranch	4	30.00	12	Horseback
9	HB3	Triple G Ranch	3	20.00	6	Horseback
10	HB4	Cadillac Mountain	2	10.00	4	Horseback
11	HB5	Westfield River Loop	6	30.00	20	Horseback

SQLQuery7.sql - w...AD\mchhabr5 (149)) | SQLQuery6.sql - w...AD\mchhabr5 (112)) | SQLQuery5.sql - w...AD\mchhabr5

```
--question 13
UPDATE New_Activity
SET
    Hours = CASE WHEN Type = 'Bike' AND Hours = 4 THEN 6 ELSE Hours END,
    PPP = CASE WHEN Type = 'Hike' AND PPP = 10 THEN 12 ELSE PPP END,
    Distance = CASE WHEN Type = 'Horseback' THEN Distance + 2 ELSE Distance END;
```

100 %

Messages

```
(30 rows affected)

Completion time: 2024-11-07T14:53:31.8736356-07:00
```

SQLQuery8.sql - w...AD\mchhabr5 (81))* | SQLQuery7.sql - w...AD\mchhabr5 (149)) | SQLQuery6.sql - w...AD\mchhabr5 (112)) | SQLQuery5.sql - w...AD\mchhabr5 (89))

```
SELECT *
FROM New_Activity
WHERE Type IN ('Bike', 'Hike', 'Horseback')
AND (Hours = 6 OR PPP = 12 OR Distance > (SELECT Distance - 2 FROM Activity WHERE New_Activity.ActID = Activity.ActID AND Type = 'Horseback'));
```

100 %

Results | Messages

	ActID	Description	Hours	PPP	Distance	Type
1	B3	White River National Park	6	20.00	12	Bike
2	B6	Bradbury - West Peak	6	15.00	5	Bike
3	B8	Welch Trail Ride	6	25.00	15	Bike
4	H2	Vail Mountain	2	12.00	3	Hike
5	H5	Cordillera	3	12.00	4	Hike
6	H7	McLennan Reserve	2	12.00	6	Hike
7	HB1	4 Eagle Ranch	4	30.00	12	Horseback
8	HB2	Black Mountain Ranch	4	30.00	14	Horseback
9	HB3	Triple G Ranch	3	20.00	8	Horseback
10	HB4	Cadillac Mountain	2	10.00	6	Horseback
11	HB5	Westfield River Loop	6	30.00	22	Horseback