

SQL TASKS

1. For each reservation, list the reservation ID, trip ID, customer number, and customer last name. Order the results by customer last name.

```

1 SELECT CUSTOMER.CUSTOMERNUM, LASTNAME, RESERVATIONID, TRIP.TRIPID
2 FROM CUSTOMER, RESERVATION, TRIP
3 WHERE CUSTOMER.CUSTOMERNUM = RESERVATION.CUSTOMERNUM
4       AND TRIP.TRIPID = RESERVATION.TRIPID
5 ORDER BY LASTNAME;

```

Results Explain Describe Saved SQL History

CUSTOMERNUM	LASTNAME	RESERVATIONID	TRIPID
121	Bretton-Borak	1600024	38
121	Bretton-Borak	1600016	11
126	Brown	1600018	38
126	Brown	1600026	12
124	Busa	1600020	28

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Fig. 1 Customer number, last name, reservation id and trip id query.

2. For each reservation for customer Ryan Goff, list the reservation ID, trip ID, and number of persons.

```

1 SELECT FIRSTNAME, LASTNAME, RESERVATIONID, TRIP.TRIPID, NUMPERSONS
2 FROM CUSTOMER, RESERVATION, TRIP
3 WHERE CUSTOMER.CUSTOMERNUM = RESERVATION.CUSTOMERNUM
4       AND TRIP.TRIPID = RESERVATION.TRIPID
5       AND CUSTOMER.CUSTOMERNUM = '104'

```

Results Explain Describe Saved SQL History

FIRSTNAME	LASTNAME	RESERVATIONID	TRIPID	NUMPERSONS
Ryan	Goff	1600004	26	4
Ryan	Goff	1600030	15	6

2 rows returned in 0.02 seconds Download

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Fig. 2 First name, last name, reservation id, trip id and number of persons query.

- List the trip name of each trip that has Miles Abrams as a guide.

```

1 SELECT TRIPNAME, GUIDE.LASTNAME, GUIDE.FIRSTNAME
2 FROM GUIDE, TRIP, TRIPGUIDES
3 WHERE GUIDE.GUIDENUM = TRIPGUIDES.GUIDENUM
4       AND TRIP.TRIPID = TRIPGUIDES.TRIPID
5       AND GUIDE.GUIDENUM = 'AM01';

```

Results

Explain

Describe

Saved SQL

History

TRIPNAME	LASTNAME	FIRSTNAME
Mt Ascutney - North Peak	Abrams	Miles
Long Pond	Abrams	Miles
McLennan Reservation Hike	Abrams	Miles

3 rows returned in 0.03 seconds

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Fig. 3 Trip name, last name and first name query.

- List the trip name of each trip that has the type Biking and that has Rita Boyers as a guide.

```

1 SELECT TRIPNAME, GUIDE.LASTNAME, GUIDE.FIRSTNAME, TYPE
2 FROM GUIDE, TRIP, TRIPGUIDES
3 WHERE GUIDE.GUIDENUM = TRIPGUIDES.GUIDENUM
4       AND TRIP.TRIPID = TRIPGUIDES.TRIPID
5       AND GUIDE.GUIDENUM = 'BR01'
6       AND TYPE = 'Biking';

```

Results	Explain	Describe	Saved SQL	History
TRIPNAME	LASTNAME	FIRSTNAME	TYPE	
Bradbury Mountain Ride	Boyers	Rita	Biking	
Cadillac Mountain Ride	Boyers	Rita	Biking	
Mount Battie Ride	Boyers	Rita	Biking	
Westfield River Loop	Boyers	Rita	Biking	
4 rows returned in 0.01 seconds Download				

Fig. 4 Trip name, last name, first name and type query.

- For each reservation that has a trip date of July 23, 2016, list the customer's last name, the trip name, and the start location.

```

1  SELECT CUSTOMER.LASTNAME, TRIPNAME, STARTLOCATION
2  FROM RESERVATION, CUSTOMER, TRIP
3  WHERE CUSTOMER.CUSTOMERNUM = RESERVATION.CUSTOMERNUM
4        AND TRIP.TRIPID = RESERVATION.TRIPID
5        AND TRIPDATE = '07-23-2016';

```

Results Explain Describe Saved SQL History

LASTNAME	TRIPNAME	STARTLOCATION
Gernowski	Mt. Cardigan - Firescrew	Orange
Bretton-Borak	Chocorua Lake Tour	Tamworth

2 rows returned in 0.01 seconds Download

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Fig. 5 Last name, trip name and start location query.

- Find the guide last name and guide first name of all guides who can lead a paddling trip.

```

1  SELECT GUIDE.LASTNAME, GUIDE.FIRSTNAME
2  FROM GUIDE, TRIP, TRIPGUIDES
3  WHERE GUIDE.GUIDENUM = TRIPGUIDES.GUIDENUM
4        AND TRIP.TRIPID = TRIPGUIDES.TRIPID
5        AND TYPE = 'Paddling';

```

Results Explain Describe Saved SQL History

LASTNAME	FIRSTNAME
Devon	Harley
Devon	Harley
Devon	Harley
Kiley	Susan
Kiley	Susan
Kiley	Susan

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Fig.6 Last name and first name query.

7. Repeat Exercise 8 but use aliases for the table names.

```

1  SELECT LASTNAME, FIRSTNAME
2  FROM GUIDE G, TRIP T, TRIPGUIDES TG
3  WHERE G.GUIDENUM = TG.GUIDENUM
4         AND T.TRIPID = TG.TRIPID
5         AND TYPE = 'Paddling';

```

LASTNAME	FIRSTNAME
Devon	Harley
Devon	Harley
Devon	Harley
Kiley	Susan
Kiley	Susan
Kiley	Susan

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Fig.7 Last name and first name query.

8. List the trip IDs and trip names for each pair of trips that have the same start location. (For example, one such pair would be trip ID 2 and trip ID 3, because the start location of both trips is Weathersfield.) The first trip ID listed should be the major sort key, and the second trip ID should be the minor sort key.

```

1  SELECT  T1.TRIPID, T2.TRIPID, T1.TRIpname
2  FROM    TRIP T1, TRIP T2
3  WHERE   T1.STARTLOCATION = T2.STARTLOCATION
4         AND T1.TRIPID != T2.TRIPID
5  ORDER BY T1.TRIPID ASC, T2.TRIPID ASC;

```

TRIPID	TRIPID	TRIPNAME
2	3	Mt Ascutney - North Peak
3	2	Mt Ascutney - West Peak
9	11	Big Rock Cave
11	9	Chocorua Lake Tour
12	13	Cadillac Mountain Ride

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Fig. 8 Trip id and trip name query.

9. Find the trip name of all reservations for hiking trips and sort the results by trip name in ascending order.

```

1  SELECT TRIPNAME
2  FROM RESERVATION, TRIP
3  WHERE TRIP.TRIPID = RESERVATION.TRIPID
4         AND TYPE = 'Hiking'
5  ORDER BY TRIPNAME ASC;

```

Results Explain Describe Saved SQL History

TRIPNAME
Arethusa Falls
Black Pond
Crawford Path Presidentials Hike
Long Pond
Long Pond
Mount Cardigan Hike

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Fig.9 Trip name query.

10. Colonial Adventure Tours calculates the total price of a trip by adding the trip price plus other fees and multiplying the result by the number of persons included in the reservation. List the reservation ID, trip ID, customer number, and total price for all reservations where the number of persons is greater than four. Use the column name TOTAL_PRICE for the calculated field.

```

1  SELECT RESERVATIONID, TRIPID, CUSTOMERNUM,
2         (TRIPPRICE + OTHERFEES * NUMPERSONS) AS TOTAL_PRICE
3  FROM RESERVATION
4  WHERE NUMPERSONS > 4;

```

Results Explain Describe Saved SQL History

RESERVATIONID	TRIPID	CUSTOMERNUM	TOTAL_PRICE
1600005	39	105	55
1600007	22	107	155
1600016	11	121	165
1600030	15	104	150

4 rows returned in 0.03 seconds Download

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Fig. 10 Query about reservation id, trip id, customer number and total price.

11. What is the average distance and the average maximum group size for each type of trip?

```
1 SELECT TYPE,
2     AVG(DISTANCE) AS AverageDistance,
3     AVG(MAXGRPSIZE) AS AverageMaximumGroupSize
4 FROM TRIP
5 GROUP BY TYPE ;
```

[illegible]

Fig. 11 Query about average distance and average maximum group size.

12. For each trip in the RESERVATION table that has more than one reservation, group by trip ID and sum the trip price.

```
1 SELECT TRIPID,  
2     COUNT (*) AS NUMBEROFRESERVATION,  
3     SUM(TRIPPRICE) AS SUMTRIPPRICE  
4 FROM RESERVATION  
5 GROUP BY TRIPID  
6 HAVING COUNT(*) > 1 ;
```

Results

Explain

Describe

Saved SQL

History

TRIPID	NUMBEROFRESERVATION	SUMTRIPPRICE
21	2	190
12	2	80
28	3	105
38	4	315

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Fig. 12 Query about trip id, number of reservation and sum of trip price.