Answer 1

```
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.

"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"
"124","Busa","1600019","25"
"109","Caron","1600009","38"
"119","Chau","1600022","21"
"119","Chau","1600014","12"
"120","Gernowski","1600029","4"
"120","Gernowski","1600015","10"
"104","Goff","1600004","26"
"104","Goff","1600030","15"
"122","Hefferson","1600017","39"
"112","Jones","1600021","32"
"103","Kasuma","1600003","28"
"107","Marchand","1600007","22"
"105","McLean","1600005","39"
"106","Morontoia","1600006","32"
"116","Murakami","1600013","8"

"101","Northfold","1600002","21"
"101","Northfold","1600001","40"
"102","Ocean","1600010","2"
"102","Ocean","1600011","3"
"125","Peterson","1600025","38"
"108","Rulf","1600008","28"
"115","Vaccari","1600012","1"

Answer 2

```
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

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

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

Answer 3

```
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    Download

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

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

Answer 4

```sql
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.

"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"

```
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.

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

Answer 8

```
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 |

Fig.8 Last name and first name query.

"LASTNAME","FIRSTNAME"
"Devon","Harley"
"Devon","Harley"
"Devon","Harley"
"Kiley","Susan"
"Kiley","Susan"
"Kiley","Susan"
"Stevens","Lori"
"Stevens","Lori"
"Stevens","Lori"
"Stevens","Lori"
"Unser","Glory"
"Unser","Glory"

6

Answer 9

```
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';
```

Results    Explain    Describe    Saved SQL    History

| LASTNAME | FIRSTNAME |
|----------|-----------|
| Devon    | Harley    |
| Devon    | Harley    |
| Devon    | Harley    |
| Kiley    | Susan     |
| Kiley    | Susan     |
| Kiley    | Susan     |

Fig. Last name and first name query.

"LASTNAME","FIRSTNAME"
"Devon","Harley"
"Devon","Harley"
"Devon","Harley"
"Kiley","Susan"
"Kiley","Susan"
"Kiley","Susan"
"Stevens","Lori"
"Stevens","Lori"
"Stevens","Lori"
"Stevens","Lori"
"Unser","Glory"
"Unser","Glory"

Answer 10

```
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;
```

Results   Explain   Describe   Saved SQL   History

| 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 |

Fig. 10 Trip id and trip name query.

"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"
"12","17","Cadillac Mountain Ride"
"12","37","Cadillac Mountain Ride"
"13","12","Cadillac Mountain"
"13","17","Cadillac Mountain"
"13","37","Cadillac Mountain"
"17","12","Huguenot Head Hike"
"17","13","Huguenot Head Hike"
"17","37","Huguenot Head Hike"
"37","12","Seal Beach Harbor"
"37","13","Seal Beach Harbor"
"37","17","Seal Beach Harbor"

Answer 11



```
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 |

Fig.11 Trip name query.

"TRIPNAME"
"Arethusa Falls "
"Black Pond"
"Crawford Path Presidentials Hike"
"Long Pond"
"Long Pond"
"Mount Cardigan Hike"
"Mount Garfield Hike"
"Mount Garfield Hike"
"Mount Garfield Hike"
"Mt Ascutney - North Peak"
"Mt Ascutney - West Peak"
"Mt. Cardigan - Firescrew"
"Wachusett Mountain"
"Welch and Dickey Mountains Hike"
"Welch and Dickey Mountains Hike"

## Answer 16

```
1   SELECT TRIP.TRIPID, TRIP.TRIPNAME, RESERVATIONID
2   FROM   TRIP LEFT OUTER JOIN RESERVATION
3   ON     TRIP.TRIPID = RESERVATION.TRIPID
4   ORDER BY TRIPID;
```

Results   Explain   Describe   Saved SQL   History

| TRIPID | TRIPNAME | RESERVATIONID |
|--------|----------|---------------|
| 1 | Arethusa Falls | 1600012 |
| 2 | Mt Ascutney - North Peak | 1600010 |
| 3 | Mt Ascutney - West Peak | 1600011 |
| 4 | Bradbury Mountain Ride | 1600029 |
| 5 | Baldpate Mountain | - |
| 6 | Blueberry Mountain | - |

"TRIPID","TRIPNAME","RESERVATIONID"
"1","Arethusa Falls ","1600012"
"2","Mt Ascutney - North Peak","1600010"
"3","Mt Ascutney - West Peak","1600011"
"4","Bradbury Mountain Ride","1600029"
"5","Baldpate Mountain ",""
"6","Blueberry Mountain",""
"7","Bloomfield - Maidstone",""
"8","Black Pond","1600013"
"9","Big Rock Cave",""
"10","Mt. Cardigan - Firescrew","1600015"
"11","Chocorua Lake Tour","1600016"
"12","Cadillac Mountain Ride","1600014"
"12","Cadillac Mountain Ride","1600026"
"13","Cadillac Mountain",""
"14","Cannon Mtn",""
"15","Crawford Path Presidentials Hike","1600030"
"16","Cherry Pond",""
"17","Huguenot Head Hike",""
"18","Low Bald Spot Hike",""
"19","Mason¿s Farm ",""
"20","Lake Mephremagog Tour",""
"21","Long Pond","1600002"

"21","Long Pond","1600022"
"22","Long Pond Tour","1600007"
"23","Lower Pond Tour",""
"24","Mt Adams ",""
"25","Mount Battie Ride","1600019"
"26","Mount Cardigan Hike","1600004"
"27","Mt. Chocorua",""
"28","Mount Garfield Hike","1600008"
"28","Mount Garfield Hike","1600020"
"28","Mount Garfield Hike","1600003"
"29","Metacomet-Monadnock Trail Hike",""
"30","McLennan Reservation Hike",""
"31","Missisquoi River - VT",""
"32","Northern Forest Canoe Trail","1600021"
"32","Northern Forest Canoe Trail","1600006"
"33","Park Loop Ride",""
"34","Pontook Reservoir Tour",""
"35","Pisgah State Park Ride",""
"36","Pondicherry Trail Ride",""
"37","Seal Beach Harbor",""
"38","Sawyer River Ride","1600024"
"38","Sawyer River Ride","1600025"
"38","Sawyer River Ride","1600009"
"38","Sawyer River Ride","1600018"
"39","Welch and Dickey Mountains Hike","1600017"
"39","Welch and Dickey Mountains Hike","1600005"
"40","Wachusett Mountain","1600001"
"41","Westfield River Loop",""