Chapter 5 Homework Questions

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 RESERVATION\_ID, TRIP\_ID, RESERVATION.CUSTOMER\_NUM, LAST\_NAME FROM RESERVATION, CUSTOMER WHERE RESERVATION.CUSTOMER\_NUM = CUSTOMER.CUSTOMER\_NUM ORDER BY LAST\_NAME

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| --- | --- | --- | --- |
| **RESERVATION\_ID** | **TRIP\_ID** | **CUSTOMER\_NUM** | **LAST\_NAME** |
| 1600024 | 38 | 121 | Bretton-Borak |
| 1600016 | 11 | 121 | Bretton-Borak |
| 1600026 | 12 | 126 | Brown |
| 1600018 | 38 | 126 | Brown |
| 1600019 | 25 | 124 | Busa |
| 1600020 | 28 | 124 | Busa |
| 1600009 | 38 | 109 | Caron |
| 1600022 | 21 | 119 | Chau |
| 1600014 | 12 | 119 | Chau |
| 1600015 | 10 | 120 | Gernowski |
| 1600029 | 4 | 120 | Gernowski |
| 1600030 | 15 | 104 | Goff |
| 1600004 | 26 | 104 | Goff |
| 1600017 | 39 | 122 | Hefferson |
| 1600021 | 32 | 112 | Jones |
| 1600003 | 28 | 103 | Kasuma |
| 1600007 | 22 | 107 | Marchand |
| 1600005 | 39 | 105 | McLean |
| 1600006 | 32 | 106 | Morontoia |
| 1600013 | 8 | 116 | Murakami |
| 1600002 | 21 | 101 | Northfold |
| 1600001 | 40 | 101 | Northfold |
| 1600011 | 3 | 102 | Ocean |
| 1600010 | 2 | 102 | Ocean |
| 1600025 | 38 | 125 | Peterson |
| 1600008 | 28 | 108 | Rulf |
| 1600012 | 1 | 115 | Vaccari |

1. List the trip name of each trip that has Miles Abrams as a guide.
   1. A screenshot of a computer

      Description automatically generated with medium confidenceSELECT TRIP\_NAME FROM TRIP T, GUIDE G, TRIP\_GUIDES TG WHERE T.TRIP\_ID = TG.TRIP\_ID AND G.GUIDE\_NUM = TG.GUIDE\_NUM AND LAST\_NAME = 'Abrams' AND FIRST\_NAME = 'Miles';
2. For each reservation that had a trip date of July, 23, 2016, list the customer’s last name, trip name and the start location.
   1. A computer screen capture

      Description automatically generated with low confidenceSELECT LAST\_NAME, TRIP\_NAME, START\_LOCATION FROM TRIP, CUSTOMER, RESERVATION WHERE TRIP.TRIP\_ID = RESERVATION.TRIP\_ID AND RESERVATION.CUSTOMER\_NUM = CUSTOMER.CUSTOMER\_NUM AND TRIP\_DATE = '7/23/2016';
3. Repeat Ex. 6 but this time use the Exists Operator. Ex. 6: List the reservation ID, trip ID and trip date for reservations for a trin in Maine (ME).
   1. A screenshot of a computer

      Description automatically generated with medium confidenceSELECT RESERVATION\_ID, TRIP\_ID, TRIP\_DATE FROM RESERVATION WHERE EXISTS (SELECT \* FROM TRIP WHERE TRIP.TRIP\_ID = RESERVATION.TRIP\_ID AND STATE = 'ME');
4. Repeat Ex. 8 but use aliases for the table names. Ex. 8: Find the guide last name and guide first name of all guides who can lead a passing trip. (*Note:* The query result should include duplicate values.)
   1. A screenshot of a computer

      Description automatically generated with medium confidenceSELECT LAST\_NAME, FIRST\_NAME FROM GUIDE G, TRIP T, TRIP\_GUIDES TG WHERE T.TRIP\_ID = TG.TRIP\_ID AND G.GUIDE\_NUM = TG.GUIDE\_NUM AND TYPE = 'Paddling';
5. Find the trip name of all reservations for hiking trips and sort the results by trip name in ascending order.
   1. SELECT TRIP\_NAME FROM RESERVATION, TRIP WHERE RESERVATION.TRIP\_ID = TRIP.TRIP\_ID AND TYPE = 'Hiking' ORDER BY TRIP\_NAME ASC;

Background pattern

Description automatically generated

1. List the number and name of each customer that lives in the state of New Jersey (NJ) and that currently has a reservation.
   1. SELECT CUSTOMER\_NUM, LAST\_NAME FROM CUSTOMER WHERE STATE = 'NJ' INTERSECT SELECT CUSTOMER.CUSTOMER\_NUM, LAST\_NAME FROM RESERVATION, CUSTOMER WHERE RESERVATION.CUSTOMER\_NUM = CUSTOMER.CUSTOMER\_NUM;

Graphical user interface, application, Teams

Description automatically generated

1. Find the trip ID and trip name of each trip whose maximum group size is greater than the maximum group size of at least one trip that has the type Biking.
   1. SELECT TRIP\_ID, TRIP\_NAME FROM TRIP WHERE MAX\_GRP\_SIZE > ANY (SELECT MAX\_GRP\_SIZE FROM TRIP WHERE TYPE = 'Biking');

|  |  |
| --- | --- |
| **TRIP\_ID** | **TRIP\_NAME** |
| 38 | Sawyer River Ride |
| 26 | Mount Cardigan Hike |
| 36 | Pondicherry Trail Ride |
| 16 | Cherry Pond |
| 37 | Seal Beach Harbor |
| 12 | Cadillac Mountain Ride |
| 30 | McLennan Reservation Hike |
| 11 | Chocorua Lake Tour |
| 23 | Lower Pond Tour |
| 20 | Lake Mephremagog Tour |
| 34 | Pontook Reservoir Tour |
| 29 | Metacomet-Monadnock Trail Hike |
| 8 | Black Pond |
| 21 | Long Pond |
| 35 | Pisgah STATE Park Ride |
| 39 | Welch and Dickey Mountains Hike |
| 28 | Mount Garfield Hike |
| 22 | Long Pond Tour |
| 31 | Missisquoi River - VT |
| 27 | Mt. Chocorua |
| 17 | Huguenot Head Hike |
| 5 | Baldpate Mountain |
| 41 | Westfield River Loop |
| 1 | Arethusa Falls |
| 3 | Mt Ascutney - West Peak |
| 32 | Northern Forest Canoe Trail |
| 9 | Big Rock Cave |