1.

*SELECT DISTINCT NAME*

*FROM 'CLIMBED', 'PARTICIPATED'*

*WHERE PEAK = "Pilot Knob (S)";*

|  |
| --- |
| **MARY** |
| **EDWARD** |
| **ROBERT** |
| **KENNETH** |
| **BARBARA** |
| **DONALD** |
| **ELIZABETH** |
| **MARK** |
| **JOHN** |
| **MICHAEL** |
| **BETTY** |
| **PATRICIA** |
| **DANIEL** |
| **STEVEN** |
| **LINDA** |
| **DONNA** |
| **GEORGE** |
| **MARIA** |
| **JENNIFER** |
| **PAUL** |

2.

*SELECT distinct peak FROM 'PARTICIPATED','CLIMBED'*

*WHERE name = 'MARK' AND participated.trip\_id = climbed.trip\_id;*

|  |
| --- |
| **Center Peak** |
| **North Maggie Mountain** |
| **Whaleback** |
| **Kearsarge Peak** |
| **Lion Rock** |
| **Midway Mountain** |
| **Mount Hale** |
| **Mount Langley** |
| **Pilot Knob (S)** |
| **Dragon Peak** |
| **Mount Barnard** |
| **Mount Guyot** |
| **Mount Newcomb** |
| **South Guard** |
| **Thor Peak** |
| **Angora Mountain** |
| **Florence Peak** |
| **Joe Devel Peak** |
| **Mount McAdie** |
| **Mount Rixford** |
| **Muah Mountain** |
| **Olancha Peak** |
| **Moses Mountain** |
| **Mount Williamson** |
| **Needham Mountain** |

3.

SELECT DISTINCT CLIMBER FROM

(SELECT DISTINCT NAME AS CLIMBER

FROM 'CLIMBED','PARTICIPATED'

WHERE CLIMBED.TRIP\_ID = PARTICIPATED.TRIP\_ID)

JOIN

(SELECT \* FROM 'PEAK'

WHERE PEAK.DIFF = 5);

|  |
| --- |
| **MARY** |
| **EDWARD** |
| **ROBERT** |
| **BARBARA** |
| **DONALD** |
| **ELIZABETH** |
| **KENNETH** |
| **MARK** |
| **JOHN** |
| **MICHAEL** |
| **BETTY** |
| **DANIEL** |
| **PATRICIA** |
| **LINDA** |
| **STEVEN** |
| **DONNA** |
| **GEORGE** |
| **MARIA** |
| **JENNIFER** |
| **PAUL** |

Name: Taylor Rembos

Assignment 3

4.

*SELECT PEAK FROM 'CLIMBED'*

*GROUP BY PEAK*

*HAVING COUNT(\*) = 1;*

|  |
| --- |
| **Angora Mountain** |
| **Cartago Peak** |
| **Center Peak** |
| **Coyote Peaks** |
| **Crag Peak** |
| **Dragon Peak** |
| **Kern Peak** |
| **Lamont Peak** |
| **Lone Pine Peak** |
| **Mount Barnard** |
| **Mount Bradley** |
| **Mount Clarance King** |
| **Mount Gardiner** |
| **Mount Genevra** |
| **Mount LeConte** |
| **Mount Muir** |
| **Mount Pickering** |
| **Mount Stanford (S)** |
| **Mount Whitney** |
| **North Guard** |
| **North Maggie Mountain** |
| **Owens Peak** |
| **Pilot Knob (S)** |
| **Spanish Needle** |
| **Triple Divide Peak** |
| **University Peak** |
| **Vandever Mountain** |

5.

*SELECT DISTINCT PEAK.NAME FROM 'PARTICIPATED','PEAK'*

*WHERE PARTICIPATED.NAME = "JOHN" and PEAK.ELEV > 14000;*

|  |
| --- |
| **Mount Langley** |
| **Mount Muir** |
| **Mount Russell** |
| **Mount Tyndall** |
| **Mount Whitney** |
| **Mount Williamson** |
| 6. |

SELECT MAP FROM

(SELECT MAP, MIN(ELEV) AS MIN

FROM 'PEAK'

GROUP BY MAP)

NATURAL JOIN

(SELECT MAP, MAX(ELEV) AS MAX

FROM 'PEAK'

GROUP BY MAP)

WHERE MAX-MIN > 2000;

|  |
| --- |
| Kearsarge Peak |
| Mount Whitney |

7.

SELECT MAP, NAME, AVG(ELEV)

FROM 'PEAK'

GROUP BY MAP

ORDER BY AVG(ELEV) DESC;

|  |
| --- |
| Mt Williamson;Mount Barnard;13747.777777777777 |
| Mt Langley;Mount Langley;13561 |
| Mount Whitney;Mount Guyot;13493.277777777777 |
| Mt Brewer;Milestone Mountain;13334.357142857143 |
| Mt Kaweah;Mount Kaweah;12945 |
| Cirque Peak;Cirque Peak;12900 |
| Mt Clarence King;Mount Gould;12838.375 |
| Triple Divide Peak;Lippincott Mountain;12657.375 |
| Mineral King;Vandever Mountain;12280.4 |
| Sphinx Lakes;Whaleback;11717 |
| Kern Peak;Kern Peak;11510 |
| Olancha;Olancha Peak;11301.5 |
| Lodgepole;Alta Peak;11240 |
| Mt Silliman;Mount Silliman;11188 |
| Bartlett;Muah Mountain;11016 |
| Kern Lake;Angora Mountain;10545 |
| Sirretta Peak;Sirretta Peak;9977 |
| Moses Mtn;North Maggie Mountain;9782.5 |
| Monache Mtn;Smith Mountain;9533 |
| Crag Peak;Crag Peak;9480 |
| Silver City;Homers Nose;9023 |
| Cannell Peak;Taylor Dome;8802 |
| Kearsarge Peak;Independence Peak;8550.666666666666 |
| Owens Peak;Owens Peak;8453 |
| Rockhouse Basin;Rockhouse Peak;8360 |
| Ninemile Canyon;Sawtooth Peak (S);8000 |
| Lament Peak;Spanish Needle;7635 |
| Onyx;Pilot Knob (S);6200 |

8.

*SELECT MARK FROM*

*(SELECT DISTINCT PEAK AS MARK FROM 'PARTICIPATED', 'CLIMBED'*

*WHERE NAME = 'MARK' AND PARTICIPATED.TRIP\_ID = CLIMBED.TRIP\_ID)*

*INNER JOIN*

*(SELECT DISTINCT PEAK AS MARY FROM 'PARTICIPATED', 'CLIMBED'*

*WHERE NAME = 'MARY' AND PARTICIPATED.TRIP\_ID = CLIMBED.TRIP\_ID)*

*ON MARK = MARY;*

|  |
| --- |
| **Kearsarge Peak** |
| **Lion Rock** |
| **Midway Mountain** |
| **Mount Hale** |
| **Mount Langley** |
| **Dragon Peak** |
| **Mount Barnard** |
| **Mount Guyot** |
| **Mount Newcomb** |
| **South Guard** |
| **Thor Peak** |
| **Joe Devel Peak** |
| **Mount McAdie** |
| **Mount Rixford** |
| **Muah Mountain** |
| **Olancha Peak** |
| **Moses Mountain** |
| **Mount Williamson** |
| **Needham Mountain** |

9.

*SELECT REGION, COUNT(NAME) FROM*

*(SELECT DISTINCT REGION, NAME*

*FROM 'PEAK' AS P1*

*WHERE NAME NOT IN (SELECT PEAK FROM 'CLIMBED'))*

*GROUP BY REGION;*

|  |
| --- |
| Corocoran to Whitney;1 |
| Great Western Divide;3 |
| Kaweahs and West;9 |
| Kearsarge Pass;4 |
| Kings Kern Divide;6 |
| Mineral King;1 |
| Olancha to Langley;3 |
| Southern Sierra;3 |
| Whitney to Williamson;5 |

10.

SELECT TRIP\_ID FROM

(SELECT CLIMB.TRIP\_ID, PEAK.ELEV, CLIMB.PEAK, PEAK.NAME

FROM 'CLIMBED' AS CLIMB, 'PEAK' AS PEAK)

GROUP BY TRIP\_ID

HAVING SUM(ELEV) > 500000;

|  |
| --- |
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |
| 14 |
| 15 |
| 16 |
| 17 |
| 18 |
| 19 |
| 20 |
| 21 |
| 22 |
| 23 |
| 24 |
| 25 |
| 26 |
| 27 |
| 28 |

11.

SELECT AVG(NUM), SEX FROM

(SELECT COUNT(PEAK) AS NUM, P1.NAME, SEX

FROM 'PARTICIPATED' AS P1

JOIN 'CLIMBED','CLIMBER' ON CLIMBED.TRIP\_ID = P1.TRIP\_ID AND CLIMBER.NAME = P1.NAME

GROUP BY P1.NAME)

GROUP BY SEX;

|  |
| --- |
| 26.6666666666668;F |
| 18;M |

12.

SELECT DISTINCT P1.NAME, P1.PEAK FROM

(SELECT \* FROM 'CLIMBED' AS MARIA

JOIN 'PARTICIPATED' ON PARTICIPATED.TRIP\_ID = MARIA.TRIP\_ID

WHERE NAME = 'MARIA') AS P1

LEFT JOIN 'PARTICIPATED'

ON

(SELECT \* FROM 'CLIMBED'

JOIN 'PARTICIPATED' ON PARTICIPATED.TRIP\_ID = CLIMBED.TRIP\_ID);

13.

14.

SELECT C1.NAME, C2.NAME, C3.NUM

FROM PARTICIPATED AS C1, PARTICIPATED AS C2, (SELECT COUNT(PEAK) AS NUM, NAME FROM

(SELECT DISTINCT CLIMBED.PEAK, CLIMBED.TRIP\_ID, PARTICIPATED.NAME

FROM 'PARTICIPATED', 'CLIMBED'

WHERE PARTICIPATED.TRIP\_ID = CLIMBED.TRIP\_ID)) AS C3

WHERE C1.TRIP\_ID = C2.TRIP\_ID AND C1.NAME < C2.NAME

GROUP BY C1.NAME;

|  |
| --- |
| BARBARA;DONALD;438 |
| BETTY;KENNETH;438 |
| DANIEL;MARY;438 |
| DONALD;ELIZABETH;438 |
| DONNA;MARY;438 |
| EDWARD;ROBERT;438 |
| ELIZABETH;KENNETH;438 |
| GEORGE;KENNETH;438 |
| JENNIFER;KENNETH;438 |
| JOHN;MARK;438 |
| KENNETH;MARY;438 |
| LINDA;MARY;438 |
| MARIA;MARY;438 |
| MARK;MICHAEL;438 |
| MARY;PATRICIA;438 |
| PATRICIA;STEVEN;438 |

15.

SELECT NAME, COUNT(TRIP\_ID) FROM

(SELECT \* FROM 'CLIMBED'

JOIN 'PARTICIPATED' ON PARTICIPATED.TRIP\_ID = CLIMBED.TRIP\_ID)

GROUP BY NAME

HAVING COUNT(TRIP\_ID) > 20;