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Module 3
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1.

```
SQL> SELECT first_name, last_name, hire_date, salary
  2  FROM employees
  3  WHERE hire_date < '1-JAN-94' AND salary > 10000
  4  ORDER BY salary DESC, hire_date ASC;

FIRST_NAME           LAST_NAME                      HIRE_DATE    SALARY
-------------------- ------------------------------ --------- ----------
Steven               King                           17-JUN-87     24000
Neena                Kochhar                        21-SEP-89     17000
Lex                  De Haan                        13-JAN-93     17000
```

2.

```
SQL> SELECT city, state_province, street_address
  2  FROM locations
  3  WHERE location_id IN(1500, 1700, 1800, 1900)
  4  ORDER BY city ASC;

CITY                           STATE_PROVINCE            STREET_ADDRESS
------------------------------ ------------------------- ----------------------------------------
Seattle                        Washington                2004 Charade Rd
South San Francisco            California                2011 Interiors Blvd
Toronto                        Ontario                   147 Spadina Ave
Whitehorse                     Yukon                     6092 Boxwood St
```

3.

```
SQL> SELECT first_name, last_name, hire_date, salary
  2  FROM employees
  3  WHERE SUBSTR(job_id,1,2) = 'SA' AND salary >= 10000
  4  ORDER BY salary ASC, hire_date ASC;

FIRST_NAME           LAST_NAME                  HIRE_DATE    SALARY
-------------------- -------------------------- --------- ----------
Janette              King                       30-JAN-96      10000
Peter                Tucker                     30-JAN-97      10000
Harrison             Bloom                      23-MAR-98      10000
Clara                Vishney                    11-NOV-97      10500
Eleni                Zlotkey                    29-JAN-00      10500
Ellen                Abel                       11-MAY-96      11000
Gerald               Cambrault                  15-OCT-99      11000
Lisa                 Ozer                       11-MAR-97      11500
Alberto              Errazuriz                  10-MAR-97      12000
Karen                Partners                   05-JAN-97      13500
John                 Russell                    01-OCT-96      14000

11 rows selected.
```

4.

```
SQL> SELECT first_name, last_name, hire_date,
  2  CASE
  3  WHEN hire_date < '1-JAN-2000' THEN 'Before 2000'
  4  WHEN hire_date >= '1-JAN-2000' THEN 'On or after 2000'
  5  END AS "Hire_Date_Century"
  6  FROM employees
  7  WHERE salary >= 10000
  8  ORDER BY "Hire_Date_Century";

FIRST_NAME           LAST_NAME                 HIRE_DATE Hire_Date_Centur
-------------------- ------------------------- --------- ----------------
Steven               King                      17-JUN-87 Before 2000
Shelley              Higgins                   07-JUN-94 Before 2000
Lex                  De Haan                   13-JAN-93 Before 2000
Nancy                Greenberg                 17-AUG-94 Before 2000
Den                  Raphaely                  07-DEC-94 Before 2000
John                 Russell                   01-OCT-96 Before 2000
Karen                Partners                  05-JAN-97 Before 2000
Alberto              Errazuriz                 10-MAR-97 Before 2000
Gerald               Cambrault                 15-OCT-99 Before 2000
Neena                Kochhar                   21-SEP-89 Before 2000
Peter                Tucker                    30-JAN-97 Before 2000

FIRST_NAME           LAST_NAME                 HIRE_DATE Hire_Date_Centur
-------------------- ------------------------- --------- ----------------
Janette              King                      30-JAN-96 Before 2000
Clara                Vishney                   11-NOV-97 Before 2000
Lisa                 Ozer                      11-MAR-97 Before 2000
Harrison             Bloom                     23-MAR-98 Before 2000
Ellen                Abel                      11-MAY-96 Before 2000
Michael              Hartstein                 17-FEB-96 Before 2000
Hermann              Baer                      07-JUN-94 Before 2000
Eleni                Zlotkey                   29-JAN-00 On or after 2000

19 rows selected.
```

5.

```
SQL> SELECT last_name, salary, commission_pct,
  2   salary *(NVL(commission_pct * .1, .01)) AS "Addtl_Bonus"
  3   FROM employees
  4   ORDER BY last_name;

LAST_NAME                      SALARY COMMISSION_PCT Addtl_Bonus
------------------------- ---------- -------------- -----------
Abel                           11000            .3         330
Ande                            6400            .1          64
Atkinson                        2800                        28
Austin                          4800                        48
Baer                           10000                       100
Baida                           2900                        29
Banda                           6200            .1          62
Bates                           7300           .15       109.5
Bell                            4000                        40
Bernstein                       9500           .25       237.5
Bissot                          3300                        33

LAST_NAME                      SALARY COMMISSION_PCT Addtl_Bonus
------------------------- ---------- -------------- -----------
Bloom                          10000            .2         200
Bull                            4100                        41
Cabrio                          3000                        30
Cambrault                      11000            .3         330
Cambrault                       7500            .2         150
Chen                            8200                        82
Chung                           3800                        38
Colmenares                      2500                        25
Davies                          3100                        31
De Haan                        17000                       170
Dellinger                       3400                        34
```

```
LAST_NAME                      SALARY COMMISSION_PCT Addtl_Bonus
------------------------- ---------- -------------- -----------
Sewall                          7000           .25         175
Smith                           8000            .3         240
Smith                           7400           .15         111
Stiles                          3200                        32
Sullivan                        2500                        25
Sully                           9500           .35       332.5
Taylor                          8600            .2         172
Taylor                          3200                        32
Tobias                          2800                        28
Tucker                         10000            .3         300
Tuvault                         7000           .15         105

LAST_NAME                      SALARY COMMISSION_PCT Addtl_Bonus
------------------------- ---------- -------------- -----------
Urman                           7800                        78
Vargas                          2500                        25
Vishney                        10500           .25       262.5
Vollman                         6500                        65
Walsh                           3100                        31
Weiss                           8000                        80
Whalen                          4400                        44
Zlotkey                        10500            .2         210

107 rows selected.
```

6.

```
SQL> CREATE TABLE Module36A
  2  AS
  3  SELECT country_name
  4  FROM countries
  5  WHERE SUBSTR(country_name,1,1) IN('A', 'N', 'I');

Table created.
```

```
SQL> CREATE TABLE Module36B
  2  AS
  3  SELECT country_name
  4  FROM countries
  5  WHERE region_id = 1;

Table created.
```

```
SQL> SELECT *
  2  FROM module36a
  3  INTERSECT
  4  SELECT *
  5  FROM module36b;

COUNTRY_NAME
----------------------------------------
Italy
Netherlands
```

```
SQL> SELECT *
  2  FROM module36A
  3  MINUS
  4  SELECT *
  5  FROM module36b;

COUNTRY_NAME
----------------------------------------
Argentina
Australia
India
Israel
Nigeria
```

```
SQL> SELECT *
  2    FROM module36A
  3    UNION ALL
  4    SELECT *
  5    FROM module36b;

COUNTRY_NAME
----------------------------------------
Argentina
Australia
Israel
India
Italy
Nigeria
Netherlands
Belgium
Switzerland
Germany
Denmark

COUNTRY_NAME
----------------------------------------
France
Italy
Netherlands
United Kingdom

15 rows selected.
```