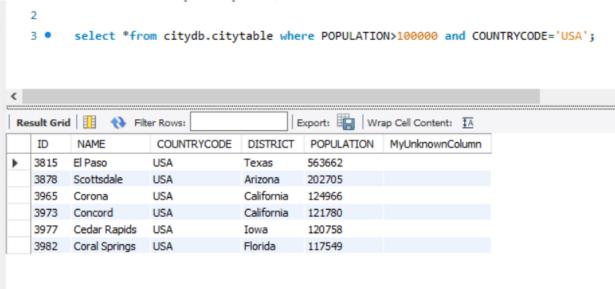
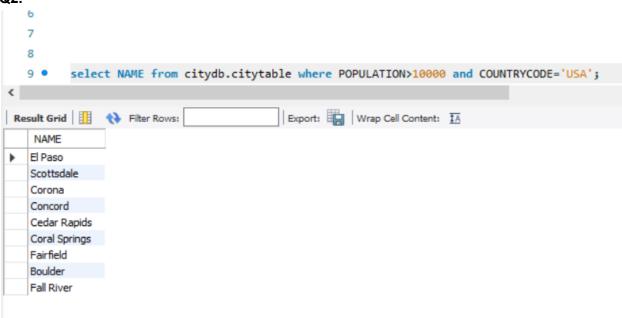
SQL Assignement-Set-1

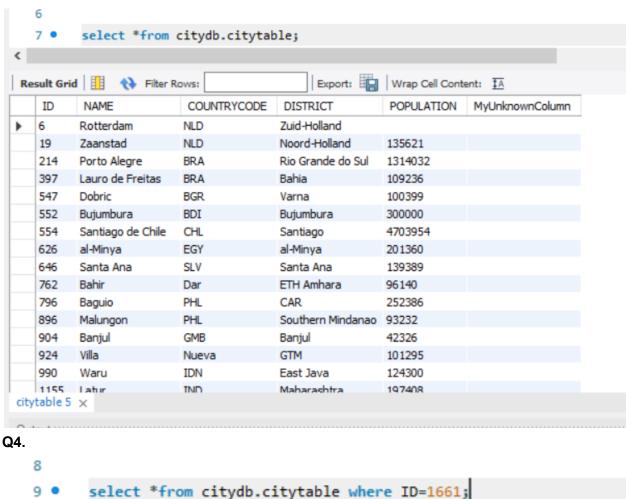
Q1.

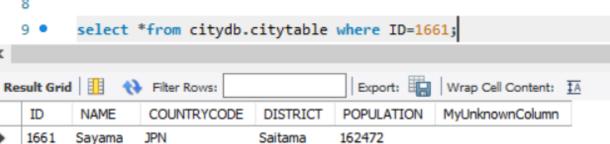


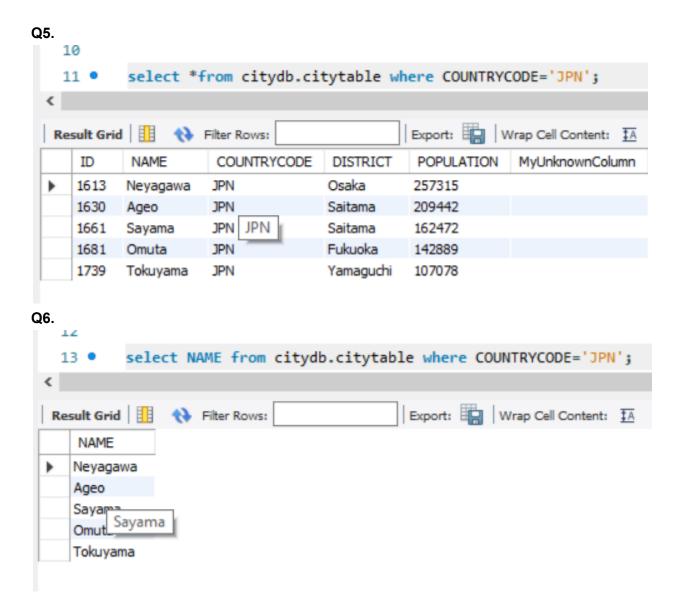
Q2.

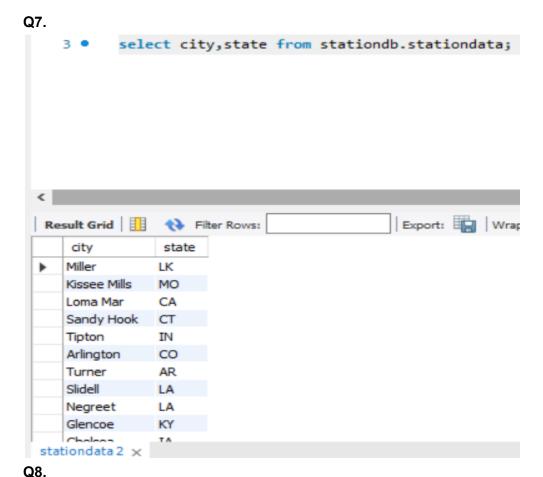


Q3.

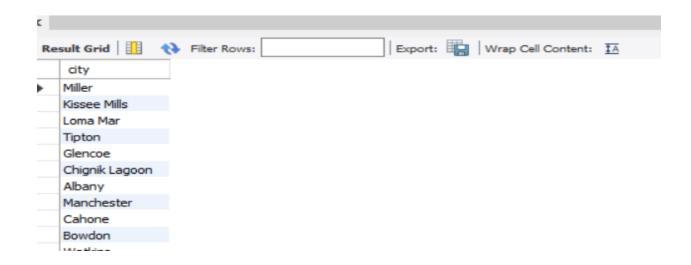






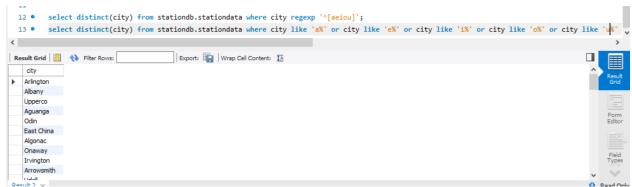


5 • select distinct(city) from stationdb.stationdata where id%2=0

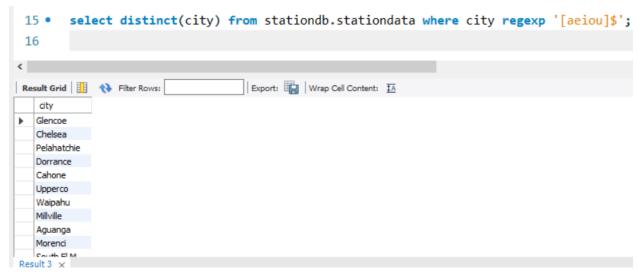




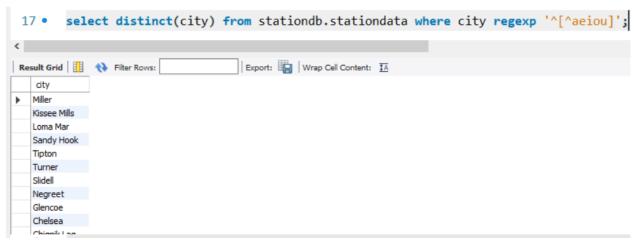
Q11.



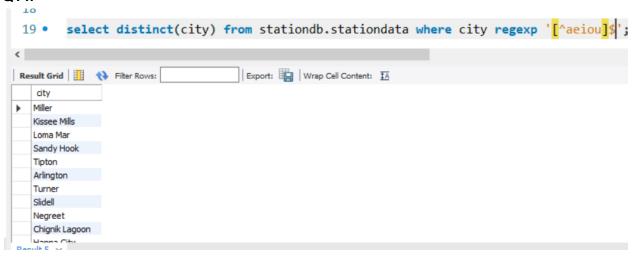
Q12.



Q13.



Q14.



Q15.

Q16

Q17.

```
36 •
       SELECT DISTINCT Product.product_id, Product.product_name
37
       FROM Product
38
       JOIN Sales ON Product.product_id = Sales.product_id
       WHERE Sales.sale_date >= '2029-01-01' AND Sales.sale_date <= '2029-03-31'
39
40

→ AND Product.product_id NOT IN (SELECT Sales.product_id)

                                     FROM Sales
41
42
                                     WHERE Sales.sale_date < '2029-01-01' OR Sales.sale_date > '2029-03-31');
43
                                 Export: Wrap Cell Content: IA
```

Q18.

1

product_id product_name



```
Q19.
```

```
61 • ⊝ SELECT ROUND((COUNT(CASE WHEN order_date = customer_pref_date THEN 1
          END) / COUNT(*)) * 100, 2) AS immediate order percentage
          FROM Delivery
   63
 <
 Export: Wrap Cell Content: IA
     immediate_order_percentage
 33.33
           select round((sum(order_date=customer_pref_date)/count(*))*100,2) from delivery;
    68 •
                                     Export: Wrap Cell Content: IA
  round((sum(order_date=customer_pref_date)/cou
   33.33
Q20.
           select ad_id,

⊖ ifnull(
   76
   77
                round(
   78
                    avg(
   79
                         case
                             when action = "Clicked" then 1
   80
                             when action = "Viewed" then 0
   81
                             else null
   82
   83
                         end
   84
                    ) * 100,
   85
                2),
           0)
   86
           as ctr
   87
   88
           from Ads
 <
                                               Export: Wrap
  Result Grid
                Filter Rows:
     ad_id
            ctr
            66.67
     3
            50.00
     2
            33.33
     5
           0.00
```

```
Q21.
           select e.employee_id,count(t.team_id) from employee e
    98 •
    99
           join employee t on e.team id=t.team id
           group by e.employee id
   100
           order by e.employee id asc;
   101
                                          Export: Wrap Cell Content: $\frac{1}{4}$
   Result Grid
                Filter Rows:
      employee_id
                count(t.team_id)
                3
      3
                3
                1
      5
                2
Q22.
113
         select c.country_name,
  115

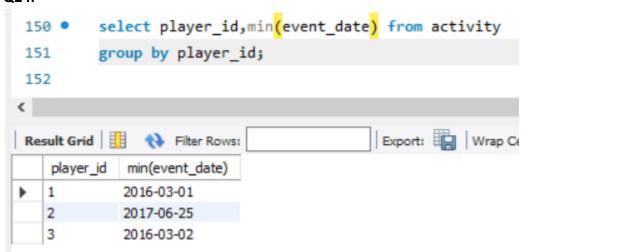
    case

              when avg(w.weather_state) <=15.0 then 'Cold'
  116
              when avg(w.weather_state) >= 25.0 then 'Hot'
  117
              else 'Warm'
  118
              end as weather type
  119
         from countries c
  120
         inner join weather w on c.country_id=w.country_id
  121
         where w.day between '2019-11-01' and '2019-11-30'
  122
         group by c.country id;
  123
  <
                                 Export: Wrap Cell Content: IA
  country_name weather_type
    USA
              Cold
     Australia
              Cold
     China
              Warm
     Peru
              Hot
    Morocco
              Hot
```

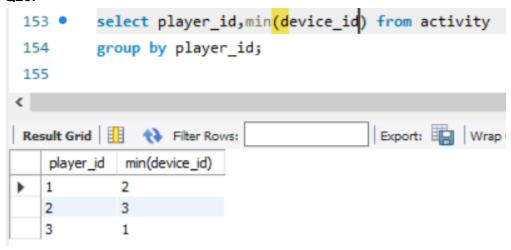
Q23.

```
137 •
        select p.product_id,
138
            round(sum(p.prince * u.units)/sum(u.units), 2) as average_price
        from Prices p
139
140
        left join UnitsSold u
        on p.product_id = u.product_id and
141
            datediff(u.purchase_date, p.start_date) >= 0 and
142
            datediff(p.end_date, u.purchase_date) >= 0
143
        group by p.product id
144
145
                                       Export: Wrap Cell Content: IA
product_id average_price
            6.96
  2
            15.00
```

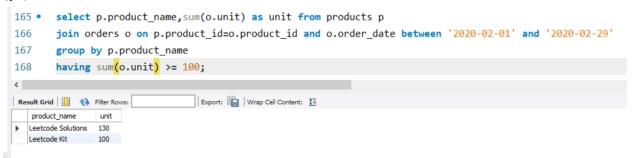
Q24.



Q25.



Q26.



Q27.



```
Q28.
Q29.
 198 •
        SELECT DISTINCT c.title
 199
        FROM content c
 200
        INNER JOIN TVProgram t
        ON c.content_id = t.content_id
 201
        WHERE c.content type = 'Movies'
 202
        AND t.program_date BETWEEN '2020-06-01' AND '2020-06-30'
 203
        AND c.Kids_content = 'Y';
 204
                                   Export: Wrap Cell Content: IA
 title
   Aladdin
Q30.
   217 • SELECT q.id, q.year, COALESCE(n.npv,0) AS npv
          FROM queries q
   218
           LEFT JOIN npv n
   219
           ON q.id = n.id AND q.year=n.year
   220
   221
                                      Export: Wrap Cell Content: TA
   id
           year
                npν
      1
           2019
                113
      2
           2008
                121
      3
           2009
                12
      7
           2018
               0
      7
           2019
      7
           2020
                30
```

13

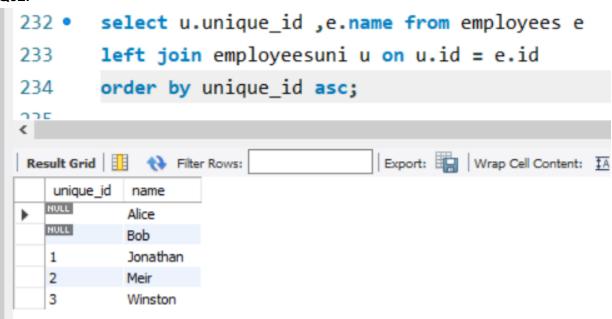
2019

40

Q31.

```
222 •
        select q.id, q.year, ifnull(npv, 0) as npv
        from queries q left join npv n
223
        on q.id = n.id and q.year = n.year
224
        order by q.id;
225
226
                                      Export: Wrap Cell Content:
Result Grid
            Filter Rows:
   id
         year
             npv
        2019
              113
   1
   2
        2008
              121
        2009
   3
              12
   7
        2018
              0
   7
        2019
   7
        2020
              30
   13
        2019
              40
```

Q32.

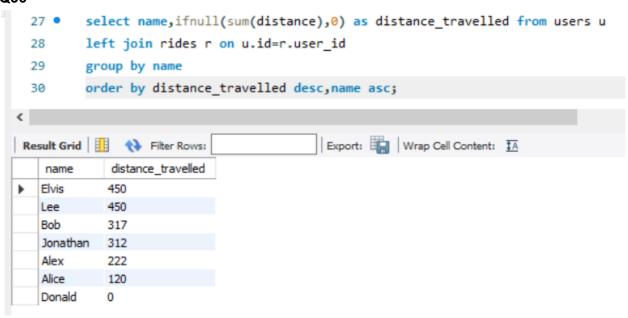


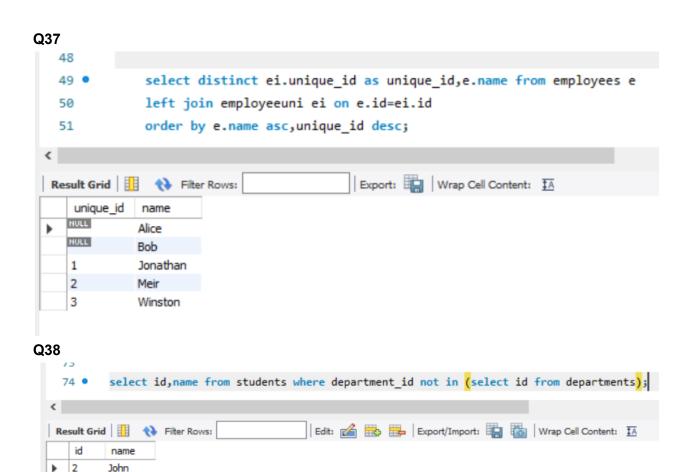
```
Q33.
          select u.name,r.distance as travelled_distance from users1 u
  242
          inner join rides r on u.id = r.user_id
  243
          order by travelled_distance desc;
  244
  245
  246
                                          Export: Wrap Cell Content: TA
 travelled_distance
     name
    Elvis
              400
    Bob
              317
    Jonathan
              312
    Lee
              230
    Alex
              222
     Alice
              120
    Lee
              120
              100
    Lee
    Elvis
              50
```

Q34.

```
249
        SELECT
250
          p.product_name,
          SUM(o.unit) as total_units_ordered
251
252
        FROM
253
          Products p
          JOIN Orders o ON p.product_id = o.product_id
254
255
        WHERE
          o.order date >= '2020-02-01' AND o.order date <= '2020-02-29'
256
257
        GROUP BY
258
          p.product name
259
        HAVING
260
          SUM(o.unit) >= 100;
Export: Wrap Cell Content: IA
                  total_units_ordered
   product_name
  Leetcode Solutions
                  130
  Leetcode Kit
                  100
```

Q35 Q36





3

NULL

Steve Jasmine Daiana

Q39.

LCHouse3 800

```
SELECT person1, person2, COUNT(*) AS call_count, SUM(duration) AS total_duration

⊖ FROM (
               SELECT
    86
    87
                   IF(from_id < to_id, from_id, to_id) AS person1,</pre>
    88
                   IF(from_id < to_id, to_id, from_id) AS person2,</pre>
    89
                   duration
               FROM Calls
    90
    91
           GROUP BY person1, person2
    92
    93
                                            Export: Wrap Cell Content: IA
  person1 person2 call_count total_duration
             2
                      2
                               70
     1
             3
                     1
                               20
     3
                               999
Q40.
   113 •
          select p.product id, round(sum(p.price*u.units)/sum(u.units),2) as average price
   114
          from prices p
   115
          join unitssold u
          on p.product_id=u.product_id and u.purchase_date between p.start_date and p.end_date
   116
          group by 1
   117
   118
                                       Export: Wrap Cell Content: IA
  product_id average_price
 | | 1
              19.83
Q41.
            select w.name, sum(p.width*p.length*p.height*w.units) as volume from warehouse w
    134 •
    135
            join products p on w.product id=p.product id
    136
            group by w.name;
    137
                                        Export: Wrap Cell Content: IA
    name
               volume
      LCHouse 1
               12250
      LCHouse2 20250
```

Q42.

```
select sa.sale date, (sa.sold num-sb.sold num) as diff from sales sa
    149 •
             left join sales sb on sa.sale_date=sb.sale_date
    150
             where sa.fruit='apples' and sb.fruit='oranges';
    151
    152
    Export: Wrap Cell Content: IA
        sale_date
      2020-05-01
       2020-05-02 0
       2020-05-03 20
       2020-05-04 -1
Q43.
    160 • ⊖ WITH cte AS (
    161
          SELECT player_id, MIN(event_date) as first_login
    162
          FROM Activity
    163
          GROUP BY player_id
    164
    165
         SELECT ROUND(SUM(CASE WHEN DATEDIFF(event_date, first_login)=1 THEN 1 ELSE 0 END) / COUNT(DISTINCT cte.player_id), 2) as fraction
         FROM Activity as a
    166
          JOIN cte
         ON a.player_id = cte.player_id;
    Result Grid | Filter Rows:
                              Export: Wrap Cell Content: IA
                                                                                                          fraction
    ▶ 0.33
     180 •
                   SELECT name
     181
                   FROM Employee
     182
                  WHERE id IN (
                        SELECT managerId
     183
```

Q44.

```
FROM Employee
184
185
             GROUP BY managerId
             HAVING COUNT(managerId) >= 5
186
         );
187
Result Grid
             Filter Rows:
                                           Ехро
   name
  John
```

Q45.

```
SELECT dept_name, COUNT(student_id) AS student_number FROM
 198 •
         department AS d LEFT JOIN student AS s ON d.dept_id = s.dept_id
 199
         GROUP BY dept_name
 200
         ORDER BY student_number DESC, dept_name;
 201
Result Grid Filter Rows:
                                          Export: Wrap Cell Content: IA
    dept_name
              student_number
   Engineering
   Science 1
              0
   Law
```

Q46.

Q47.

```
234 • select project_id, employee_id
        from Project2
 235
         join Employee2
 236
         using (employee id)
 237
       238
              select project_id, max(experience years)
 239
              from Project2
 240
              join Employee2
 241
              using (employee_id)
 242
              group by project id);
 243
 <
                                      Export: Wrap Cell Content: TA
 project_id employee_id
    1
            3
    2
            1
Q48.
 262 •
      SELECT b.book_id,
            b.NAME
 263
 264
      FROM
            books AS b
            LEFT JOIN orders AS o
 265
                  ON b.book id = o.book id
 266
                    AND dispatch date BETWEEN '2018-06-23' AND '2019-6-23'
 267
      WHERE Datediff('2019-06-23', b.available from) > 30
 268
      GROUP BY book_id
 269
      HAVING Sum(IFNULL(o.quantity, 0)) < 10 ORDER BY NULL;
 270
 <
                          Export: Wrap Cell Content: TA
 book_id NAME
        Kalila & Demna
       28 Letters
       The Hunger Games
```

Q49.

```
281 •
      select student_id, min(course_id) as course_id, grade
       from Enrollments
282
       where (student id, grade) in
283
            (select student id, max(grade)
284
           from Enrollments
285
           group by student id)
286
       group by student id, grade
287
       order by student_id asc;
288
289
                                 Export: Wrap Cell Content: IA
student_id
           course_id
                  grade
  1
          2
                  99
  2
          2
                  95
  3
          3
                  82
```

Q50.

```
select Teams.team id, Teams.team name,
309
         sum(case when team_id=host_team and host_goals>guest_goals then 3 else 0 end) +
310
         sum(case when team_id=host_team and host_goals=guest_goals then 1 else 0 end) +
         311
312
         sum(case when team_id=guest_team and host_goals=guest_goals then 1 else 0 end) as num_points
      from Teams left join Matches
313
314
      on Teams.team_id = Matches.host_team or Teams.team_id = Matches.guest_team
315
      group by Teams.team_id
316
      order by num_points desc, Teams.team_id asc;
<
                           Export: Wrap Cell Content: IA
team_id team_name num_points
  25
  40
  50
  10
```