

## Assignment 2B Feedback

```
SQL> ===== START RUN =====
SQL> -- Running T3-tsa-json.sql
SQL>
SQL> @T3-tsa-json.sql
SQL> --*****PLEASE ENTER YOUR DETAILS BELOW*****
SQL> --T3-tsa-json.sql
SQL>
SQL> --Student ID:33429472
SQL> --Student Name:Ziqi Pei
SQL> --Unit Code:FIT9132
SQL> --Applied Class No:A12
SQL>
SQL> /* Comments for your marker:
SQL>
SQL>
SQL>
SQL> */
SQL>
SQL> /*3(a)*/
SQL> -- PLEASE PLACE REQUIRED SQL STATEMENT TO GENERATE
SQL> -- THE COLLECTION OF JSON DOCUMENTS HERE
SQL> -- ENSURE that your query is formatted and has a semicolon
SQL> -- (;) at the end of this answer
SQL> SELECT
  2   JSON_OBJECT(
  3     'id' VALUE t.town_id,
  4     'name' VALUE town_name || ', ' || town_state,
  5     'location' VALUE JSON_OBJECT(
  6       'latitude' VALUE town_lat,
  7       'longitude' VALUE town_long
  8     ),
  9     'avg_temperature' VALUE JSON_OBJECT(
10       'summer' VALUE town_avg_summer_temp,
11       'winter' VALUE town_avg_winter_temp
12     ),
13     'no_of_resorts' VALUE COUNT(resort_id),
14     'resorts' VALUE JSON_ARRAYAGG(
15       JSON_OBJECT(
16         'id' VALUE r.resort_id,
17         'name' VALUE r.resort_name,
18         'address' VALUE r.resort_street_address,
19         'phone' VALUE r.resort_phone,
20         'year_built' VALUE TO_CHAR(r.resort_yr_built_purch, 'YYYY'),
21         'company_name' VALUE c.company_name
22       )
23     )
24   ) AS json_doc
25 FROM
26   tsa.town t
27   LEFT OUTER JOIN tsa.resort r ON t.town_id = r.town_id
28   JOIN tsa.company c ON r.company_abn = c.company_abn
29 GROUP BY
30   t.town_id,
31   town_name,
32   town_state,
```

Must use extract as year is number, not string in sample output

## Assignment 2B Feedback

```
33     town_lat,  
34     town_long,  
35     town_avg_summer_temp,  
36     town_avg_winter_temp;
```

JSON\_DOC

```

{"_id":1,"name":"Byron Bay, NSW","location":{"latitude":-28.6474,"longitude":153.602},"avg_temperature":{"summer":23.5,"winter":16.9},"no_of_resorts":2,"resorts":{"id":1,"name":"Byron Bay Exclusive Resort","address":"1 Karma Road","phone":"0212429423","year_built":"2012","company_name":"Byron Holiday"},"id":5,"name":"Byron Bay Super Resort","address":"675 Lennon Street","phone":"0224811234","year_built":"2016","company_name":"Byron Holiday"]}]

```

```
{
  "id": 2, "name": "Mudgee, NSW", "location": {
    "latitude": -32.6145, "longitude": 149.5733, "avg_temperature": {
      "summer": 23, "winter": 8.3, "no_of_resorts": 1, "resorts": [
        {
          "id": 10, "name": "Awesome Resort", "address": "40 Moonlight Road", "phone": "0228503123", "year_built": "2018", "company_name": "Wonderful Dessert Accommodation"
        }
      ]
    }
  },
  "id": 3, "name": "Kingsaroy, QLD", "location": {
    "latitude": -26.5309, "longitude": 151.84, "avg_temperature": {
      "summer": 24.8, "winter": 11.5, "no_of_resorts": 1, "resorts": [
        {
          "id": 8, "name": "King Resort at Kingsaroy", "address": "23A Town Road", "phone": "0746101231", "year_built": "2018", "company_name": "Tropical Dream"
        }
      ]
    }
  },
  "id": 4, "name": "Gympie, QLD", "location": {
    "latitude": -26.1834, "longitude": 152.6657, "avg_temperature": {
      "summer": 27.1, "winter": 13.6, "no_of_resorts": 1, "resorts": [
        {
          "id": 6, "name": "Gympie Luxury Resort", "address": "1234 Gympie Hwy", "phone": "0745703124", "year_built": "2014", "company_name": "Tropical Dream"
        }
      ]
    }
  },
  "id": 5, "name": "Alice Springs, NT", "location": {
    "latitude": -23.698, "longitude": 133.8807, "avg_temperature": {
      "summer": 29, "winter": 13, "no_of_resorts": 1, "resorts": [
        {
          "id": 3, "name": "Alice Springs Resort", "address": "1 Wonderland Road", "phone": "0870003111", "year_built": "2011", "company_name": "Wonderful Dessert Accommodation"
        }
      ]
    }
  },
  "id": 6, "name": "Broome, WA", "location": {
    "latitude": -17.9644, "longitude": 122.2304, "avg_temperature": {
      "summer": 32, "winter": 21, "no_of_resorts": 1, "resorts": [
        {
          "id": 4, "name": "Awesome Resort", "address": "1 Crystal Clear Road", "phone": "0853246725", "year_built": "2008", "company_name": "Wonderful Dessert Accommodation"
        }
      ]
    }
  },
  "id": 7, "name": "Mount Isa, QLD", "location": {
    "latitude": -20.7256, "longitude": 139.4927, "avg_temperature": {
      "summer": 31.9, "winter": 17.3, "no_of_resorts": 1, "resorts": [
        {
          "id": 9, "name": "Queen Resort", "address": "45 Mount Isa Road", "phone": "0748253123", "year_built": "2017", "company_name": "Tropical Dream"
        }
      ]
    }
  },
  "id": 8, "name": "Taree, NSW", "location": {
    "latitude": -31.8895, "longitude": 152.4444, "avg_temperature": {
      "summer": 24.3, "winter": 12, "no_of_resorts": 1, "resorts": [
        {
          "id": 7, "name": "Taree Exclusive Resort", "address": "78 Station Road", "phone": "0243012123", "year_built": "2014", "company_name": "Australia Experience"
        }
      ]
    }
  },
  "id": 9, "name": "Echuca, VIC", "location": {
    "latitude": -36.146, "longitude": 144.7448, "avg_temperature": {
      "summer": 22.2, "winter": 9.3, "no_of_resorts": 1, "resorts": [
        {
          "id": 2, "name": "Amazing Resort", "address": "5B Lincoln Way", "phone": "0326415234", "year_built": "2014", "company_name": "Australia Experience"
        }
      ]
    }
  }
}
```

```
9 rows selected.
```

SQL&gt;

```
SQL> ----- END RUN -----
```

```
SQL> set echo off
```