SQL Assignment

1. How many Home Agencies are based in New York?

```
SELECT  COUNT(*) AS Number_Of_Agencies_in_NewYork
FROM `bigquery-public-data.cms_medicare.home_health_agencies_2013`
WHERE State = 'NY';
```

Query results					SAVE RESULTS ▼	EXPLORE DATA ▼
JOB INFORMATION	RESULTS	CHART PREVIEW	JSON	EXECUTION DETAILS	EXECUTION GRAPH	

Row	Number_Of_Agencies_in_NewYork ▼
1	145

2. How many Home Agencies are based in Miami City?

```
SELECT  COUNT(*) AS Number_Of_Agencies_in_Miami_City
FROM `bigquery-public-data.cms_medicare.home_health_agencies_2013`
WHERE city = 'MIAMI';
```

Query results					SAVE RESULTS ▼	EXPLORE DATA ▼
JOB INFORMATION	RESULTS	CHART PREVIEW	JSON	EXECUTION DETAILS	EXECUTION GRAPH	

Row	Number_Of_Agencies_in_Miami_City
1	357

3. How much is the average Medicare Charge for Lupas?

```
SELECT  AVG(total_hha_medicare_payment_amount_for_lupas) AS
Average_Medicare_Payment_for_Lupas
FROM `bigquery-public-data.cms_medicare.home_health_agencies_2013`
```

Query results					SAVE RESULTS ▼	EXPLORE DATA ▼
JOB INFORMATION	RESULTS	CHART PREVIEW	JSON	EXECUTION DETAILS	EXECUTION GRAPH	

Row	Average_Medicare_Payment_for_Lupas ▼
1	26871.387927565353

4. How many Lupa episodes are there in Brooklyn City?

```sql
SELECT  sum(total_lupa_episodes) AS Total_Lupas_Episodes_in_Brooklyn_City
FROM `bigquery-public-data.cms_medicare.home_health_agencies_2013`
Where city='BROOKLYN';
```

Query results					SAVE RESULTS ▾	EXPLORE DATA ▾	⇕

JOB INFORMATION	RESULTS	CHART PREVIEW	JSON	EXECUTION DETAILS	EXECUTION GRAPH

Row	Total_Lupas_Episodes_in_Brooklyn_City	
1	2245	

5. Which Home Medical Agency charged the maximum medicare charge for non-lupa in Birmingham city?

```sql
SELECT agency_name as Agency_which_charged_maximum_for_nonlupa_in_Birmingham_City
FROM `bigquery-public-data.cms_medicare.home_health_agencies_2013`
Where city='BIRMINGHAM'
ORDER BY total_hha_charge_amount_non_lupa
Limit 1;
```

Query results					SAVE RESULTS ▾	EXPLORE DATA ▾	⇕

JOB INFORMATION	RESULTS	CHART PREVIEW	JSON	EXECUTION DETAILS	EXECUTION GRAPH

Row	Agency_which_charged_maximum_for_nonlupa_in_Birmingham_City	
1	ALACARE HOME HEALTH & HOSPICE	

6. What is the total number of Home Health Agencies in California (CA) that had Medicare payments for non-LUPA cases, and what is the average Medicare payment amount among them?

```sql
SELECT COUNT(*) AS total_agencies, AVG(total_hha_medicare_payment_amount_non_lupa) AS
average_payment
FROM bigquery-public-data.cms_medicare.home_health_agencies_2013
WHERE state = 'CA';
```

Query results

| | SAVE RESULTS ▾ | EXPLORE DATA ▾ | ⇕ |

| JOB INFORMATION | RESULTS | CHART PREVIEW | JSON | EXECUTION DETAILS | EXECUTION GRAPH |

Row	total_agencies ▾	average_payment ▾	
1	1096	1513697.1122262776	

7. Among the Home Health Agencies in Colorado (CO), which city had the highest total Medicare payments for LUPA cases, and what is the amount?

```
SELECT city, SUM(total_hha_medicare_payment_amount_for_lupas) AS total_payment
FROM bigquery-public-data.cms_medicare.home_health_agencies_2013
WHERE state = 'CO'
GROUP BY city
ORDER BY total_payment DESC
LIMIT 1;
```

Query results

| | SAVE RESULTS ▾ | EXPLORE DATA ▾ | ⇕ |

| JOB INFORMATION | RESULTS | CHART PREVIEW | JSON | EXECUTION DETAILS | EXECUTION GRAPH |

Row	city ▾	total_payment ▾	
1	DENVER	546956	

8. Find the top 5 hospice providers in 2014 based on the total Medicare payment amount.

```
SELECT name, Sum(total_medicare_payment_amount) AS total_payment
FROM bigquery-public-data.cms_medicare.hospice_providers_2014
GROUP BY name
ORDER BY total_payment DESC
LIMIT 5;
```

Query results

| | SAVE RESULTS ▾ | EXPLORE DATA ▾ | ⇕ |

| JOB INFORMATION | RESULTS | CHART PREVIEW | JSON | EXECUTION DETAILS | EXECUTION GRAPH |

Row	name ▾	total_payment ▾	
1	GENTIVA HOSPICE	498295151	
2	VITAS HEALTHCARE CORPORA...	412884798	
3	VITAS HEALTHCARE CORPORA...	173904773	
4	HEARTLAND HOSPICE SERVIC...	156823353	
5	HEARTLAND HOME HEALTH C...	114056692	

9. Find the top 10 home health agencies with the most total Medicare payments in 2013 and compare their total Medicare payments received in 2014.

```sql
SELECT
    hha2013.agency_name,
    hha2013.total_hha_medicare_payment_amount_for_lupas AS payment_2013,
    hha2014.total_hha_medicare_payment_amount_for_lupas AS payment_2014
FROM
    bigquery-public-data.cms_medicare.home_health_agencies_2013 AS hha2013
JOIN
    bigquery-public-data.cms_medicare.home_health_agencies_2014 AS hha2014
ON
    hha2013.provider_id = hha2014.provider_id
ORDER BY
    payment_2013 DESC
LIMIT 10;
```

Query results   SAVE RESULTS ▾   EXPLORE DATA ▾

JOB INFORMATION   RESULTS   CHART PREVIEW   JSON   EXECUTION DETAILS   EXECUTION GRAPH

Row	agency_name ▾	payment_2013 ▾	payment_2014 ▾	
1	VNS OF NY HOME CARE CHHA	3085530	3773014	
2	PARTNERS HEALTHCARE AT H...	1011128	903930	
3	VNA CARE NETWORK	896965	799260	
4	CATHOLIC HOME CARE	718151	795078	
5	CLEVELAND CLINIC HOME CA...	648194	713497	
6	NORTH SHORE HOME CARE C...	623846	652164	
7	ADVOCATE HOME HEALTH CA...	616203	666890	
8	ATLANTIC HOME CARE & HOS...	587616	535535	
9	VISITING NURSE ASSOC OF CE...	583889	628448	
10	VNA OF CAPE COD	556588	642212	

10. Identify the hospice providers and home health agencies in 2014 located in the same city and state. Provide the names and total Medicare payments for each.

```sql
SELECT
    name AS hospice_provider,
    hospice.city AS hospice_city,
    hospice.state AS hospice_state,
```

```sql
    agency_name AS home_health_agency,
    total_medicare_payment_amount AS total_payment
FROM
    bigquery-public-data.cms_medicare.hospice_providers_2014 AS hospice
JOIN
    bigquery-public-data.cms_medicare.home_health_agencies_2014 AS home_health
ON
    hospice.city = home_health.city
    AND hospice.state = home_health.state
ORDER BY
    total_payment DESC
LIMIT 10;
```

Query results

SAVE RESULTS ▾   EXPLORE DATA ▾   ⤫

JOB INFORMATION	RESULTS	CHART PREVIEW	JSON	EXECUTION DETAILS	EXECUTION GRAPH

Row	hospice_provider ▾	hospice_city ▾	hospice_state ▾	home_health_agency ▾	total_payment ▾
1	VITAS HEALTHCARE CORPORATION OF FLORIDA	MELBOURNE	FL	SEA PINES HOME HEALTH SER…	412884798
2	VITAS HEALTHCARE CORPORATION OF FLORIDA	MELBOURNE	FL	CARTER HEALTHCARE	412884798
3	VITAS HEALTHCARE CORPORATION OF FLORIDA	MELBOURNE	FL	GENTIVA HEALTH SERVICES	412884798
4	VITAS HEALTHCARE CORPORATION OF FLORIDA	MELBOURNE	FL	FAMILY HOME HEALTH SERVIC…	412884798
5	VITAS HEALTHCARE CORPORATION OF FLORIDA	MELBOURNE	FL	VNA SPACE COAST INC	412884798
6	VITAS HEALTHCARE CORPORATION OF FLORIDA	MELBOURNE	FL	PRN HOME CARE INC	412884798
7	VITAS HEALTHCARE CORPORATION OF FLORIDA	MELBOURNE	FL	MEDERI CARETENDERS	412884798
8	VITAS HEALTHCARE CORPORATION OF FLORIDA	MELBOURNE	FL	SUNCREST OMNI	412884798
9	VITAS HEALTHCARE CORPORATION OF FLORIDA	MELBOURNE	FL	NURSE ON CALL	412884798
10	VITAS HEALTHCARE CORPORATION OF FLORIDA	MELBOURNE	FL	GENTIVA HEALTH SERVICES	412884798