Semantic Parsing

Which players did win the Australian Open?

Question Answering

Greece held its last Summer Olympics in which year?

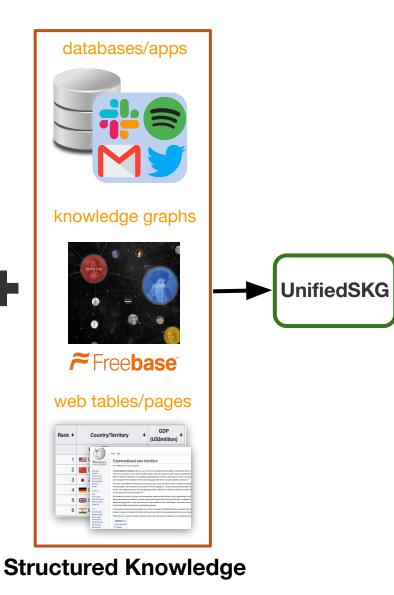**Data-to-Text Generation**

Describe the table result.

Fact Verification

Canada obtained 3 more gold medals than Mexico.

Dialogs

I am looking for a cheap restaurant in the city center.

Book a table for 8 at 18:30 on Thursday.

+

databases/apps

knowledge graphs

Mona Lisa
Da Vinci

≈ Free**base**™

web tables/pages

Rank ⬍	Country/Territory ⬍	GDP (US$million) ⬍
1		
2		
3		
4		
5		
6		

Structured Knowledge

UnifiedSKG

SQL/SPARQL/s-Expression

```
SELECT T1.name
FROM players AS T1 JOIN matches AS T2
ON T1.id = T2.winner_id
WHERE T2.Tourney = "Australian Open"
```

Answer set

2014

NL description

In 1970, Hawaii's population mainly consists of 38.8% White and 57.7% Asian, Native Hawaiian...

Boolean

False

Multi-turn SQL-like programs

```
Restaurant(price=cheap,area=center)

Restaurant(price=cheap,area=center,
           name=Dojo Noodle Bar,
           people=8, time=18:30,
           day=Thursday)
```