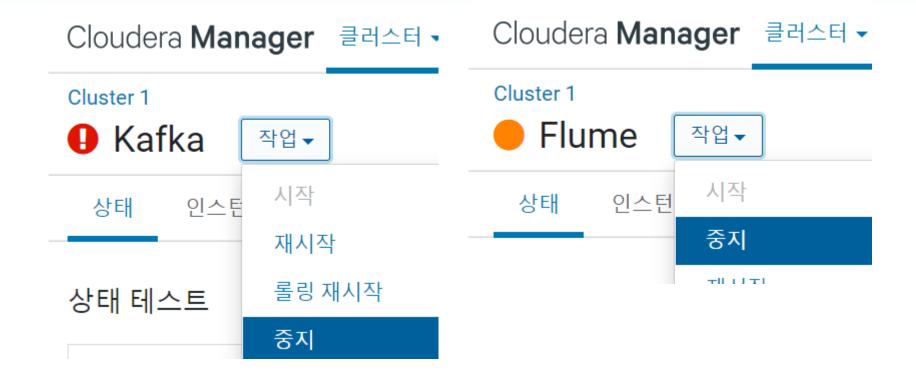
빅데이터 탐색

5강



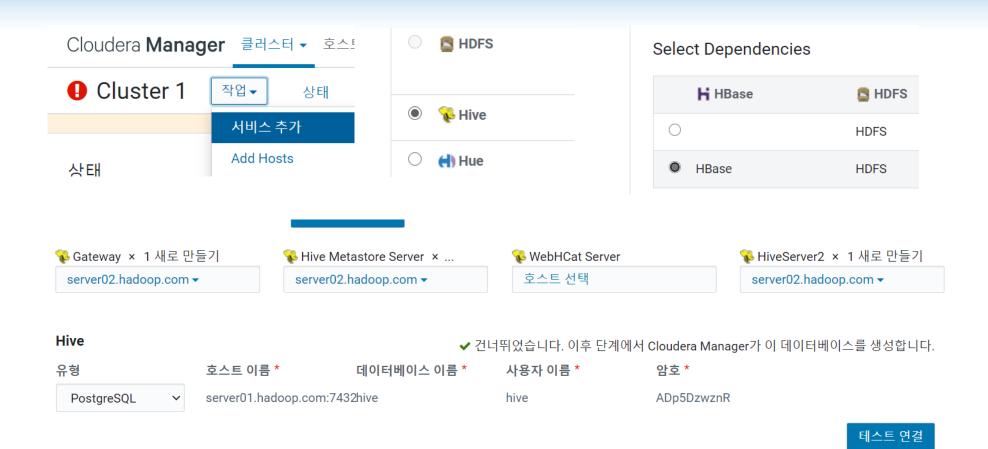
미사용 서비스 중지

Hbase 구성 요소

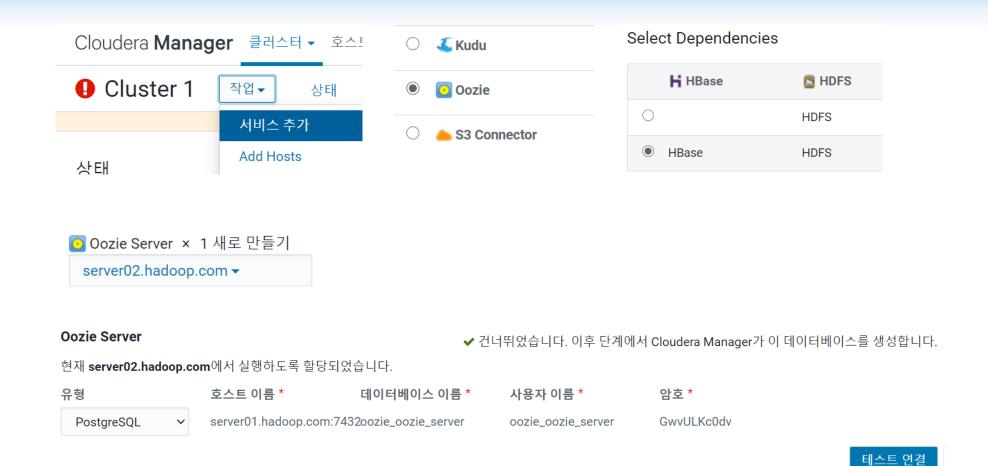


하이브

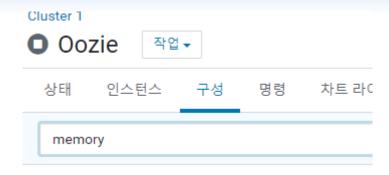
Hive 설치



우지 설치



우지 설정값 변경

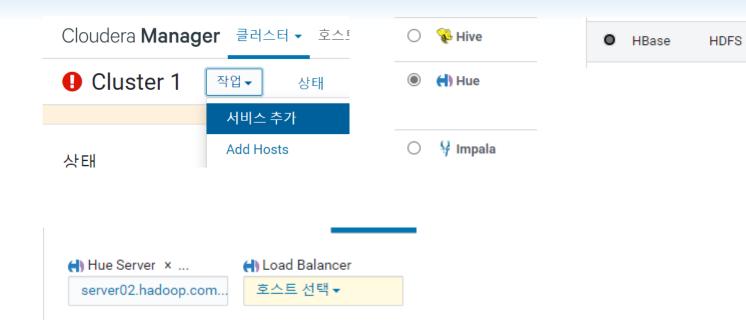




유 설치

- yum install centos-release-scl
- yum install scl-utils
- yum install python27
- python -version
- curl -k -O https://bootstrap.pypa.io/get-pip.py
- python get-pip.py
- yum install postgresql-devel
- bash -c "source /opt/rh/python27/enable; pip install psycopg2==2.6.2 -- ignore-installed"

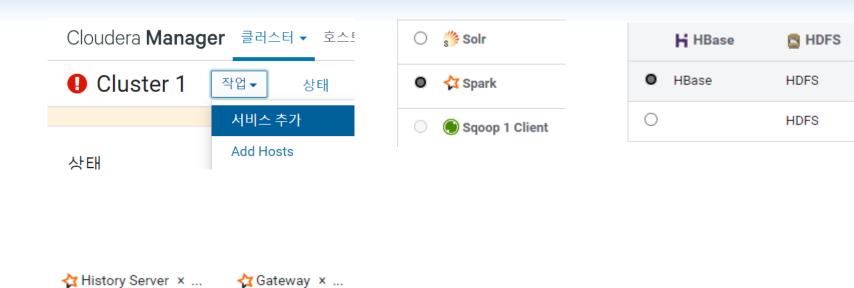
휴설치



Hive

spark설치

server02.hadoop.com...



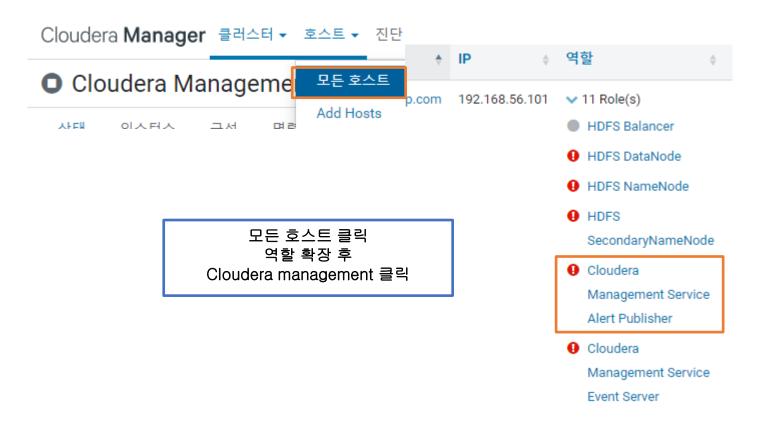
☆ Gateway × ...

server02.hadoop.com...

휴를 이용한 데이터 탐색

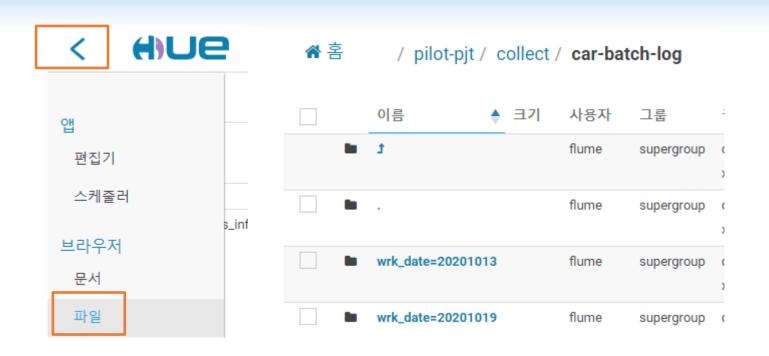
환경 설정

- ❖ 클러스터 재시작
- ❖ 수집, 적재 및 모니터링 기능 모두 정지
 - Flume, kafka, Hbase, Cloudera Management





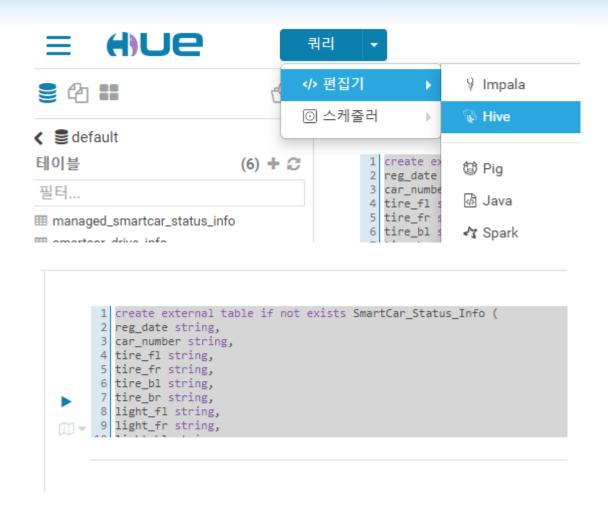
하둡에 저장된 파일 확인



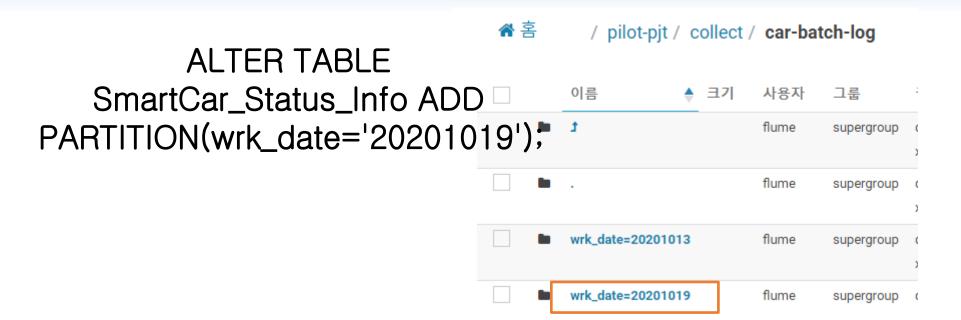
http://server02.hadoop.com:8888/

하이브를 이용한 External 데 이터 탐색

스마트카 상태 정보 테이블 생성



분석 데이터 추가

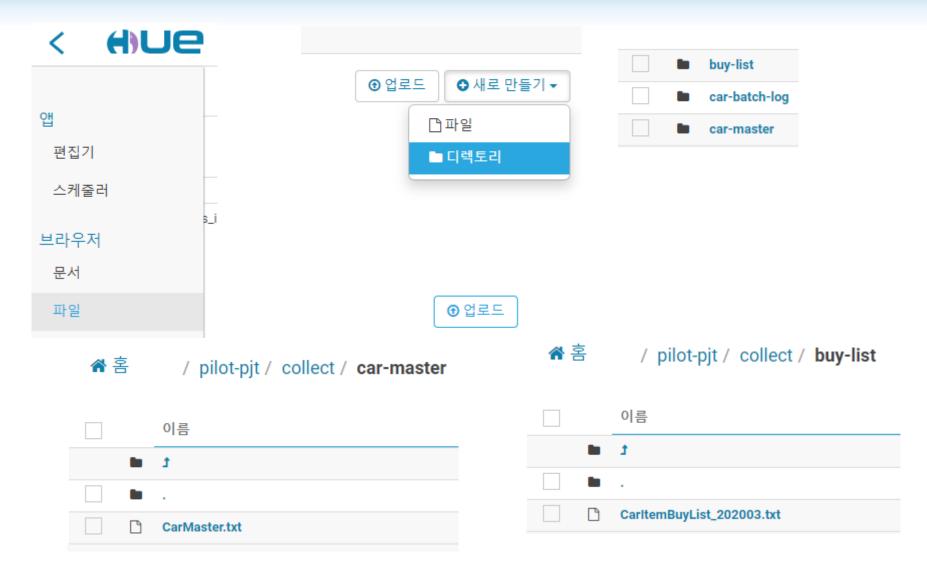


결과 확인

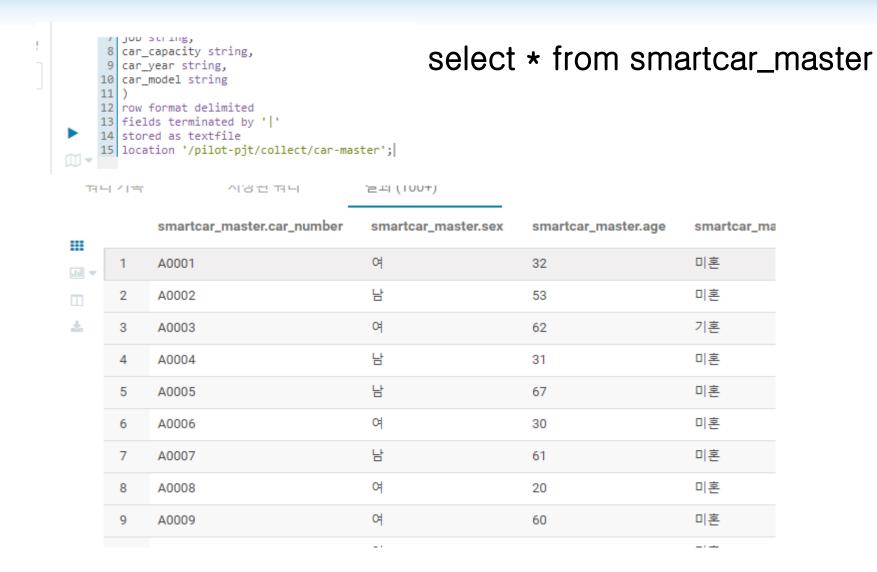
select * from SmartCar_Status_Info limit 5;

		_			
		smartcar_status_info.reg_date	smartcar_status_info.car_number	smartcar_status_info.tire_fl	smartcar_st
ili v	1	20200101000000	C0001	74	85
	2	20200101000004	C0001	75	70
<u>±</u>	3	20200101000008	C0001	93	95
	4	20200101000012	C0001	85	96
	5	20200101000016	C0001	77	97

하둡 데이터 업로드



Car_master 테이블 생성



구매내역 테이블 생성

꿔디 기폭

```
2 CREATE EXTERNAL TABLE SmartCar_Item_BuyList (
3 car_number string,
4 Item string,
5 score string,
6 month string
7 )
8 row format delimited
9 fields terminated by ','
```

작성된 쿼디

select * from smartcar_item_buylist

		smartcar_item_buylist.car_numbe	er smartca	r_item_buylist.item	smartcar_i
.ii 🕶	1	M0014	Item-018	1	2
	2	G0035	Item-015	i	3
<u>±</u>	3	10090	Item-009		3
	4	K0095	Item-018		5
	5	Y0042	Item-020		2
	6	W0023	Item-030		2
	7	Y0036	Item-023		3
	8	T0026	Item-028		1

일파 (TUU+)

Spark 활용

[root@server02 ~]# spark-shell

Setting default log level to "WARN".

To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).

scala> val smartcar_master_df=spark.sqlContext.sql("select * from smartcar_master where age >= 18")

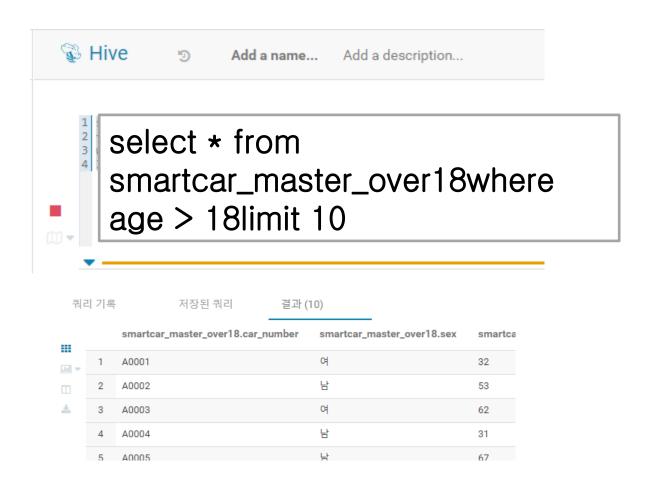
smartcar_master_df: org.apache.spark.sql.DataFrame = [car_number: string, sex: string ... 7 more fields]

scala> smartcar_master_df.show()

+	+	+	+	+	+
car_number sex a	age marriage	region	job car_	capacity car_	year car_model
+	+	++-		+	+
A0001 여	32 미혼	서울 프	프 리 랜 서	1000	2009 F
A0002 남	53 미혼	충남	주 부	2500	2015 A
A0003 여	62 기혼	대전	회 사 원	2500	2012 B
A0004 남	31 미혼	광주	공 무 원	2000	2010 D
I A00051 남 I	671 미혼	Ⅰ 대구Ⅰ	공 무 원	17001	20021 CI

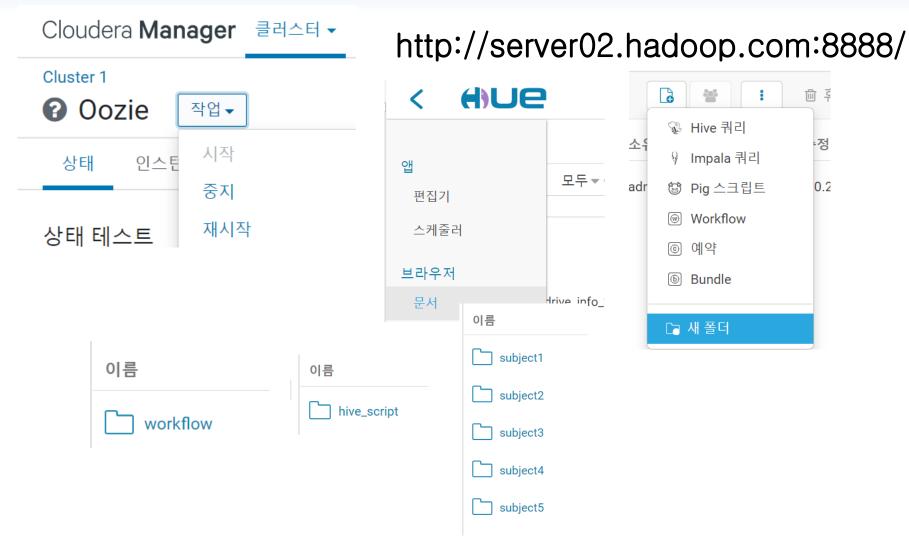
hive와의 연동

scala> smartcar_master_df.write.saveAsTable("SmartCar_Master_Over18")



예약

디렉토리 생성



create_table.hql, alter.hql, insert.hql 생성

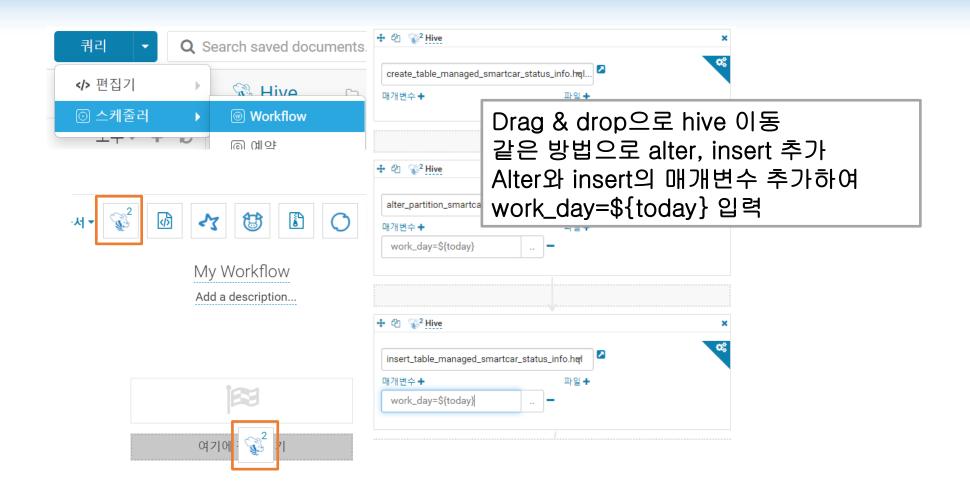




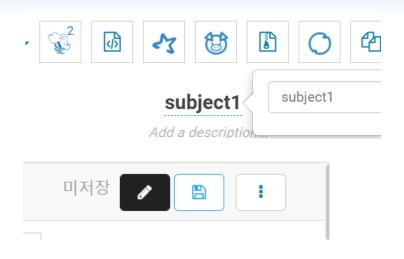
1 create table if not
2 car_number string,
3 sex string,
4 age string,
5 marriage string,
6 region string,
7 job string,
8 car_capacity string,
9 car_year string,



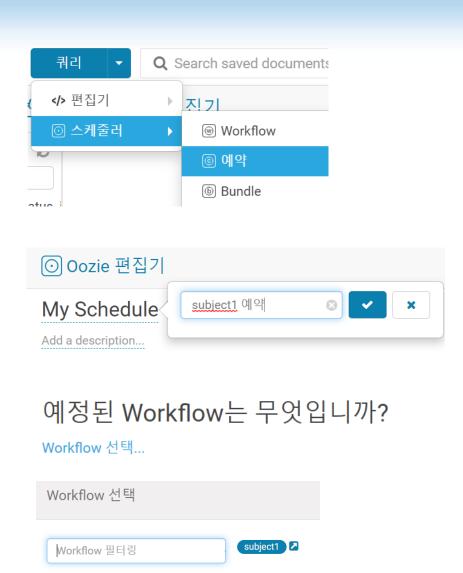
스케줄러 만들기



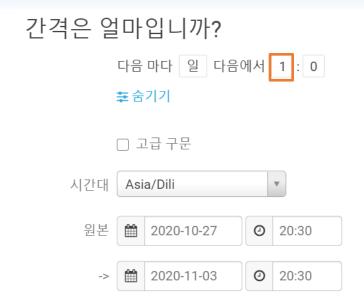
프로젝트 저장 및 예약

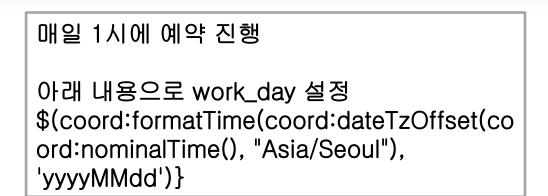


위와 같이 subject1으로 저장 예약 진행하고 이름 및 workflow 선택



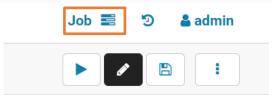
예약 설정



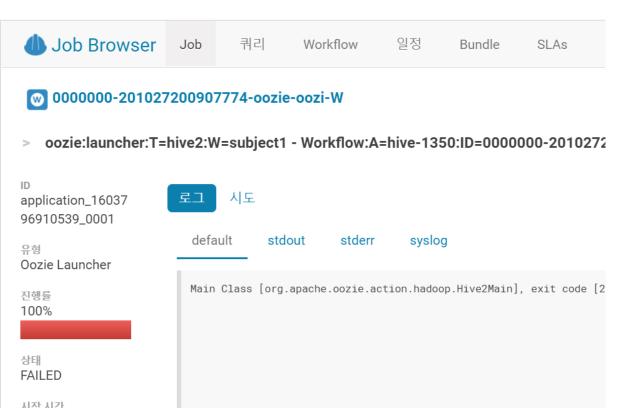




예약확인

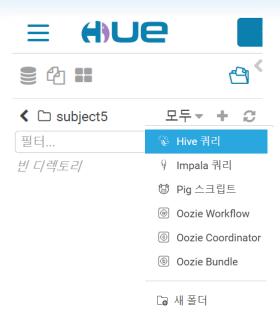


오른쪽 상단의 job을 클릭하면 예정정보를 확인할 수 있으며 현재 DB 문제로 실패함

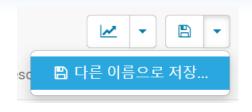


실습을 위한 workflow 직접실행









car_number string,
sex string,
age string,
marriage string,
region string,
job string,
car_capacity string
car_year string,
car_model string

