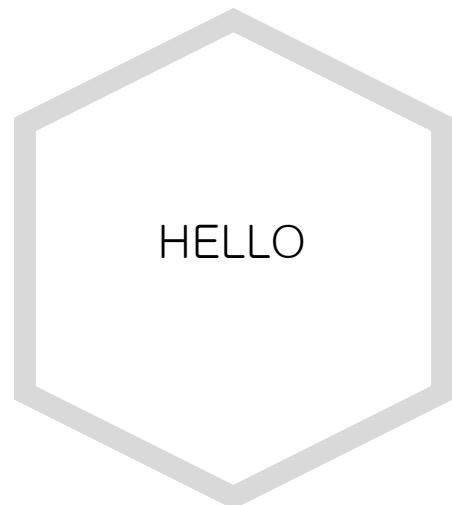


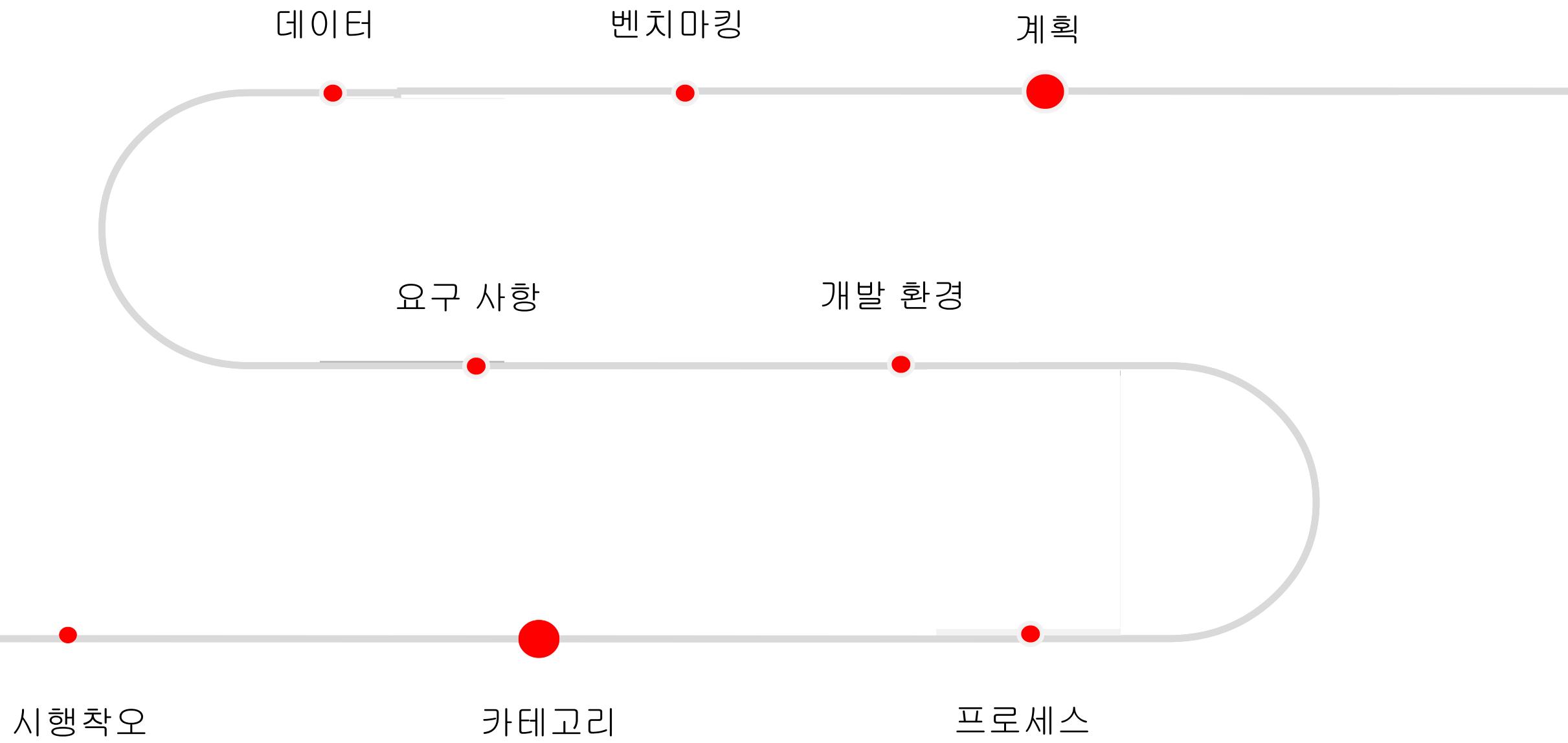
빅데이터 2회차

조원희

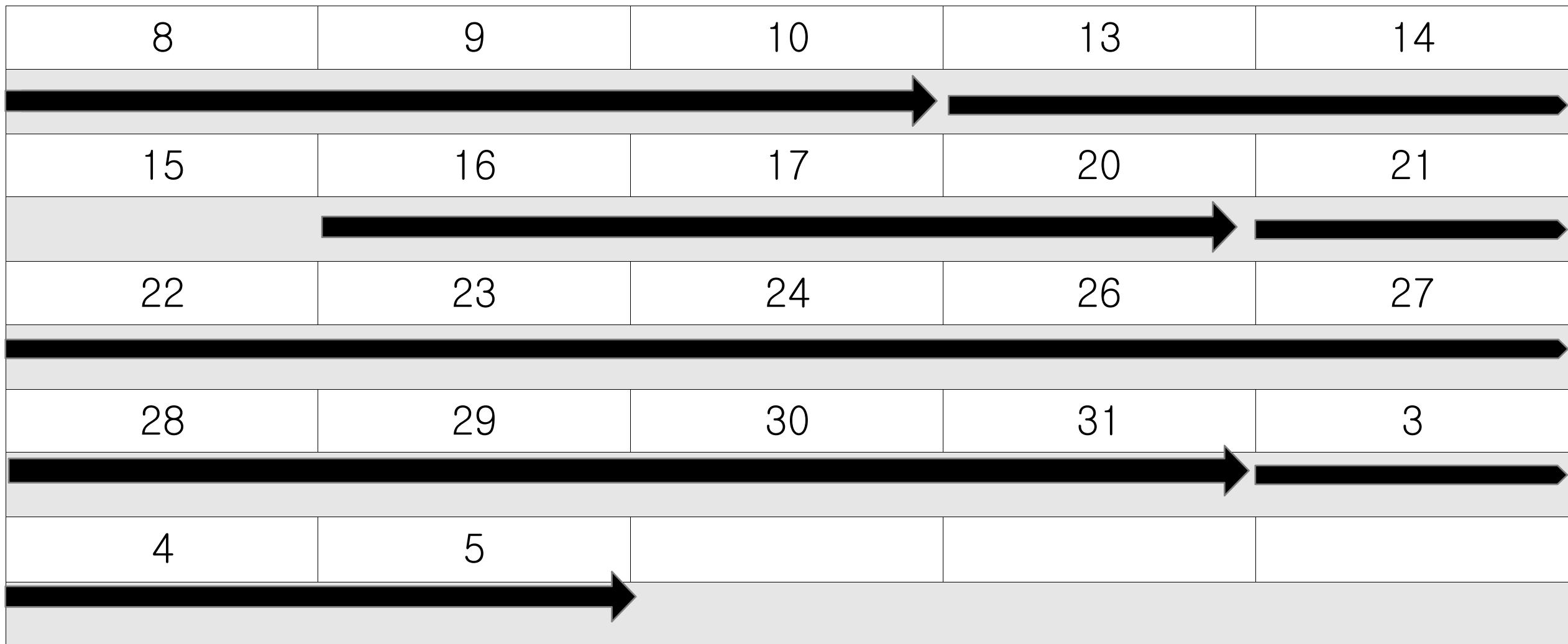
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목차



계획



08.08 ~ 08.10 : 주제 선정, 데이터 준비

08.13 ~ 08.20 : HTML 및 UI 구현

08.21 ~ 08.31 : 데이터 분석 및 시각화

09.03 ~ 09.04 : 보안 점 개선, 발표 준비

벤치 마킹



- **벤치마킹 사이트로는 올림픽 공식 홈페이지를 사용.**
- **디자인, 아이디어를 얻는데 많은 도움을 얻음.**
- **벤치마킹 할 수 있는 사이트가 하나 뿐이여서 아쉬움.**

올림픽공식사이트 : <https://www.olympic.org/>

데이터



Year,City,Sport,Discipline,Athlete,Country,Gender,Event,Medal
1924,Athens,Aquatics,Swimming,"NAOS, Alfred",GER,Men,100M Freestyle,Gold
1924,Athens,Aquatics,Swimming,"NEDZWAN, Otto",AUT,Men,100M Freestyle,Silver
1924,Athens,Aquatics,Swimming,"DRYDEN, Dimitris",GRE,Men,100M Freestyle For Sailors,Bronze
1924,Athens,Aquatics,Swimming,"VALDERRAMA, Joaquin",ESP,Men,100M Freestyle For Sailors,Gold
1924,Athens,Aquatics,Swimming,"DRAZOVIC, Spiridon",GRE,Men,100M Freestyle For Sailors,Silver
1924,Athens,Aquatics,Swimming,"KORINAS, Efstratios",GRE,Men,100M Freestyle,Bronze
1924,Athens,Aquatics,Swimming,"NAOS, Alfred",GER,Men,100M Freestyle,Gold
1924,Athens,Aquatics,Swimming,"AMBROU, Joannis",GRE,Men,100M Freestyle,Silver
1924,Athens,Aquatics,Swimming,"KORINAS, Efstratios",GRE,Men,100M Freestyle,Bronze
1924,Athens,Aquatics,Swimming,"NAOS, Paul",GER,Men,400M Freestyle,Gold
1924,Athens,Aquatics,Swimming,"PAPAKIS, Antonios",GRE,Men,400M Freestyle,Silver
1924,Athens,Athletics,Athletics,"JANE, Francis",USA,Men,100M,Bronze
1924,Athens,Athletics,Athletics,"GARROCH, Alfonso",ESP,Men,100M,Bronze
1924,Athens,Athletics,Athletics,"BURNS, Thomas",USA,Men,100M,Gold
1924,Athens,Athletics,Athletics,"NAHANN, Fritz",GER,Men,100M,Silver
1924,Athens,Athletics,Athletics,"CURTIS, Thomas",USA,Men,110M Hurdles,Gold
1924,Athens,Athletics,Athletics,"GOULDING, Granville",GBR,Men,110M Hurdles,Silver
1924,Athens,Athletics,Athletics,"LEMMESOON, Albin",GBR,Men,100M,Bronze
1924,Athens,Athletics,Athletics,"FLACK, Edwin",AUS,Men,100M,Gold
1924,Athens,Athletics,Athletics,"BLANE, Arthur",USA,Men,100M,Silver
1924,Athens,Athletics,Athletics,"WELIN, Charles",USA,Men,400M,Bronze
1924,Athens,Athletics,Athletics,"BURST, Thomas",USA,Men,400M,Gold
1924,Athens,Athletics,Athletics,"JARSSON, Herbert",USA,Men,400M,Silver
1924,Athens,Athletics,Athletics,"WILMES, Dimitrios",GRE,Men,400M,Bronze
1924,Athens,Athletics,Athletics,"FLACK, Edwin",AUS,Men,400M,Gold
1924,Athens,Athletics,Athletics,"TANCI, Nando",MLI,Men,100M,Silver
1924,Athens,Athletics,Athletics,"VERSIUS, Setirios",GRE,Men,Discus Throw,Bronze
1924,Athens,Athletics,Athletics,"GARRET, Robert",USA,Men,Discus Throw,Gold
1924,Athens,Athletics,Athletics,"PARASKEVOPoulos, Panagiotis",GRE,Men,Discus Throw,Silver
1924,Athens,Athletics,Athletics,"CLAW, Ellery",USA,Men,High Jump,Gold

Year,City,Sport,Discipline,Athlete,Country,Gender,Event,Medal
1924,Chamonix,Biathlon,Biathlon,"BERTHET, G.",FRA,Men,Military Patrol,Bronze
1924,Chamonix,Biathlon,Biathlon,"BERNILLON, C.",FRA,Men,Military Patrol,Bronze
1924,Chamonix,Biathlon,Biathlon,"BERNILLON, Maurice",FRA,Men,Military Patrol,Bronze
1924,Chamonix,Biathlon,Biathlon,"VANDILLE, Andre",FRA,Men,Military Patrol,Bronze
1924,Chamonix,Biathlon,Biathlon,"AUFRANCELET, Adel",SUI,Men,Military Patrol,Gold
1924,Chamonix,Biathlon,Biathlon,"JULEN, Alphonse",SUI,Men,Military Patrol,Gold
1924,Chamonix,Biathlon,Biathlon,"JULEN, Ant.",SUI,Men,Military Patrol,Gold
1924,Chamonix,Biathlon,Biathlon,"VANHORN, O.",SUI,Men,Military Patrol,Gold
1924,Chamonix,Biathlon,Biathlon,"BRUNER, V.I.",FIN,Men,Military Patrol,silver
1924,Chamonix,Biathlon,Biathlon,"ESKELINEN, A.",FIN,Men,Military Patrol,Silver
1924,Chamonix,Biathlon,Biathlon,"KORHONEN, A.T.",FIN,Men,Military Patrol,Silver
1924,Chamonix,Biathlon,Biathlon,"LAPPALAINEN, Martti",FIN,Men,Military Patrol,Silver
1924,Chamonix,Bobslleigh,Bobslleigh,"MORTLAUX, René",BEL,Men,Four-Man,Bronze
1924,Chamonix,Bobslleigh,Bobslleigh,"MULIER, Charles",BEL,Men,Four-Man,Bronze
1924,Chamonix,Bobslleigh,Bobslleigh,"VAN DER BREECK, Paul",BEL,Men,Four-Man,Bronze
1924,Chamonix,Bobslleigh,Bobslleigh,"VERSOERENEN, Victor",BEL,Men,Four-Man,Bronze
1924,Chamonix,Bobslleigh,Bobslleigh,"MULLER, Heinrich",BEL,Men,Four-Man,Bronze
1924,Chamonix,Bobslleigh,Bobslleigh,"NEVELL, Alfred",SUI,Men,Four-Man,Gold
1924,Chamonix,Bobslleigh,Bobslleigh,"SCHEIDER, Edward",SUI,Men,Four-Man,Gold
1924,Chamonix,Bobslleigh,Bobslleigh,"SCHLÄPPI, Alfred",SUI,Men,Four-Man,Gold
1924,Chamonix,Bobslleigh,Bobslleigh,"SCHLÄPPI, Heinrich",SUI,Men,Four-Man,Gold
1924,Chamonix,Bobslleigh,Bobslleigh,"ARNOLD, Thomas",GBR,Men,Four-Man,Silver
1924,Chamonix,Bobslleigh,Bobslleigh,"BROOME, Halp",GBR,Men,Four-Man,Silver
1924,Chamonix,Bobslleigh,Bobslleigh,"ROTHAMOND, Alexander",GBR,Men,Four-Man,Silver
1924,Chamonix,Bobslleigh,Bobslleigh,"SONER, Rodney",GBR,Men,Four-Man,Silver
1924,Curling,Curling,"ALDERT, H.",FRA,Men,Curling,Bronze
1924,Curling,Curling,"ANDRE, Georges",FRA,Men,Curling,Bronze
1924,Curling,Curling,"BENOIST, J.A.",FRA,Men,Curling,Bronze
1924,Curling,Curling,"CANVET, P.",FRA,Men,Curling,Bronze
1924,Curling,Curling,"COUBROUET, F.",FRA,Men,Curling,Bronze

Year,City,Sport,Discipline,Athlete,Country,Gender,Event,Medal
1924,Chamonix,Biathlon,Biathlon,"BERTHET, G.",FRA,Men,Military Patrol,Bronze

- 데이터는 카글이라는 데이터 공유 포털 사이트에서 제공하는 데이터를 사용.
- 동계올림픽, 하계올림픽 데이터로 나누어져 있음.
- 사용한 컬럼은 날짜, 나라, 종목, 메달을 사용.

카글 홈페이지 : <https://www.kaggle.com/>

요구 사항



1

언어는 자바를 사용

2

프로그램은 스프링, 톰캣, 하둡을 사용

3

데이터의 양은 1,000이상의 데이터

개발 환경

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개발언어



데이터베이스



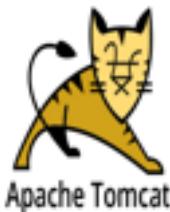
라이브러리 및 화면구성



개발 툴



서버



Framework



리눅스



CentOS



백업



프로세스



카테고리



홈

스포츠

분석

스포츠

OLYMPIC GAMES

(00:00 02:00 04:00 06:00)

OLYMPIC VIDEO

00:00 00:15 00:45

2018 PyeongChang Winter Olympic Biathlon
moment of glory shot 1

2018 PyeongChang Winter Olympic Biathlon
moment of glory shot 2

스포츠

SUMMER SPORTS | WINTER SPORTS

SUMMER SPORTS

WINTER SPORTS

스포츠

스포츠

올림픽 메달 분석

메달

전체

시행착오



- **데이터 찾기**

→ 재가 필요로 한 데이터만 있는 데이터를 구하기가 힘들었지만 Kaggle이라는 데이터 공유 사이트를 통해 제일 근접한 데이터를 얻음

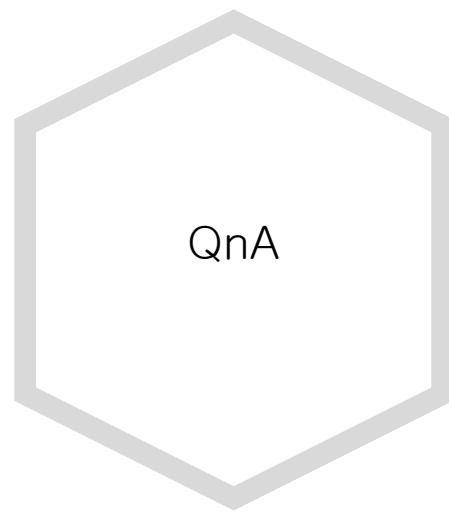
- **CSV 데이터 가공 과정**

→ split()기준을 쉼표가 아닌 정규표현식을 사용함.

- **너무 많은 양의 데이터**

→ 데이터가 너무 많아 string 타입 크기가 부족해 DB를 사용함.

Q & A



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감사합니다