

01 중간발표 리마인드 분석 방향 수정





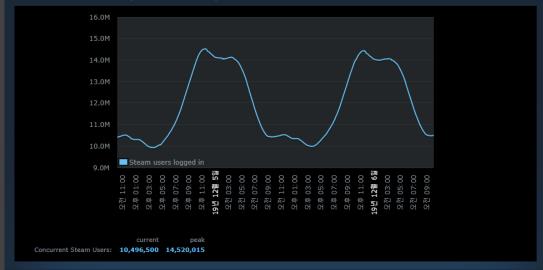
1 중간발표 리마인드 분석 방향 수정

Steam Stat

STEAM & GAME STATS UPDATED: 6 DECEMBER, 2019 @ 10:25AM

Our on-going goal with Steam is to improve the service we offer customers. We believe that by sharing this data, we'll be able to spot problems earlier, improve the Steam service more efficiently, and ultimately build better products and experiences. Let us know what you think.

Concurrent Steam Users (most recent 48 hours)



Top games by current player count

GAME	PEAK TODAY	JRRENT PLAYERS
Dota 2		268,248
Counter-Strike: Global Offensive	614,239	265,168
PLAYERUNKNOWN'S BATTLEGROUN		
Halo: The Master Chief Collection	123,283	88,426
Destiny 2	104,987	69,367
Tom Clancy's Rainbow Six Siege		

Steam Hardware & Software Survey

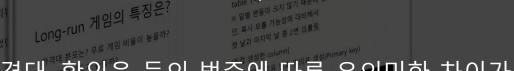
Steam Hardware & Software Survey

Steam Stats

Steam Download Stats

Steam Support Sta

"할인 행사에 따른 유저들의 구매력의 변화가 나타나는가?"

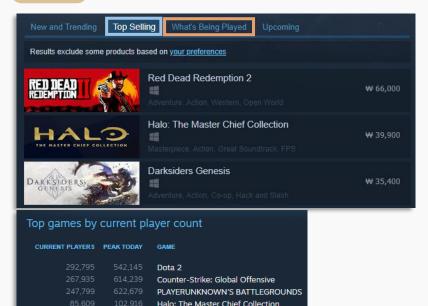


가격대, 할인율 등의 범주에 따른 유의미한 차이가 있는가?"

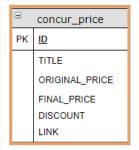


02 price/details/current player

STEP 1 가격과 실시간 접속자 수 크롤링



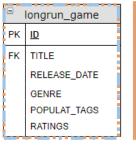




1	_	
	1	cpt_top100
	PK	<u>ID</u>
		TIME_OF_CRAWL
		TITLE
		CUR_USER
		PEAK_TODAY

STEP 2

2개 테이블 소속 여부에 따라 3가지 type으로 분류하여 세부 정보 크롤링





□ topseller_game			
PK	<u>ID</u>		
FK	TITLE		
	RELEASE_DATE		
	GENRE		
	POPULAT_TAGS		
	RATINGS		
	BUNDLE		

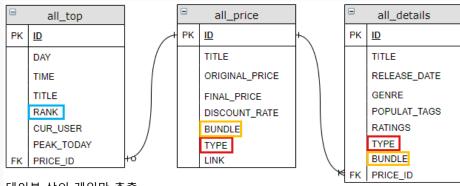
STEP 3

최종 테이블 - 테이블 병합 및 컬럼 추가

E-R Diagram

[2019-11-17~2019-11-29]

- DAY = 일
- TIME = 시
- RANK = 순위
- BUNDLE = 묶음 상품 여부
- TYPE = 게임 타입
- PRICE_ID = all_price의 ID



※ all_price 테이블 상의 게임만 추출

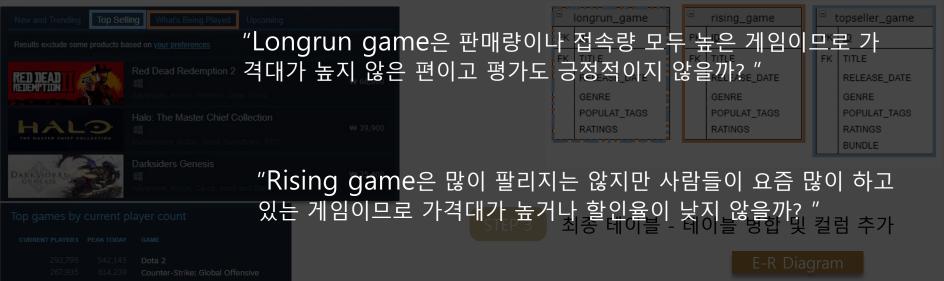


02 ^{크롤링 및 DB 저장} price/details/current player

STEP 1 가격과 실시간 접속자 수 크롤링

STEP 2

2개 테이블 소속 여부에 따라 3가지 type으로 분류하여 세부 정보 크롤링



■ DAY = 일

■ TIME = 시

■ RANK = 순위

■ BUNDLE = 묶음 상품 여부

■ TYPE = 게임 타입

■ PRICE ID = all price의 ID

[2019-11-17~2019-11-29]

topsell_price

PK ID

TITLE

ORIGINAL_PRICE

FINAL_PRICE

DISCOUNT

LINK

"Topseller。game은 사람들이 구매는 했지만 지금 당장 하는 게임은

PK 및 아니므로 접속자 수가 적고 시간대와 큰 상관관계가 없지다않을까?"

TITLE
ORIGINAL PRICE
FINAL PRICE
DISCOUNT
LINK

TITLE

CUR_USER
PEAK_TODAY

FK PRICE_ID

PRICE_ID

TOPSEller。game은 사람들이 구매는 했지만 지금 당장 하는 게임은
TITLE

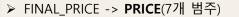
RELEASE_DATE

GENRE
POPULAT_TAGS
RATINGS
TYPE
BUNDLE

FK PRICE_ID

※ all_price 테이블 상의 게임만 추출

(분석을 위한)테이블 병합 및 컬럼 추가



➤ DISCOUT_RATE -> **DISCOUNT**(6개 범주)

GENRE by TYPE

TYPE

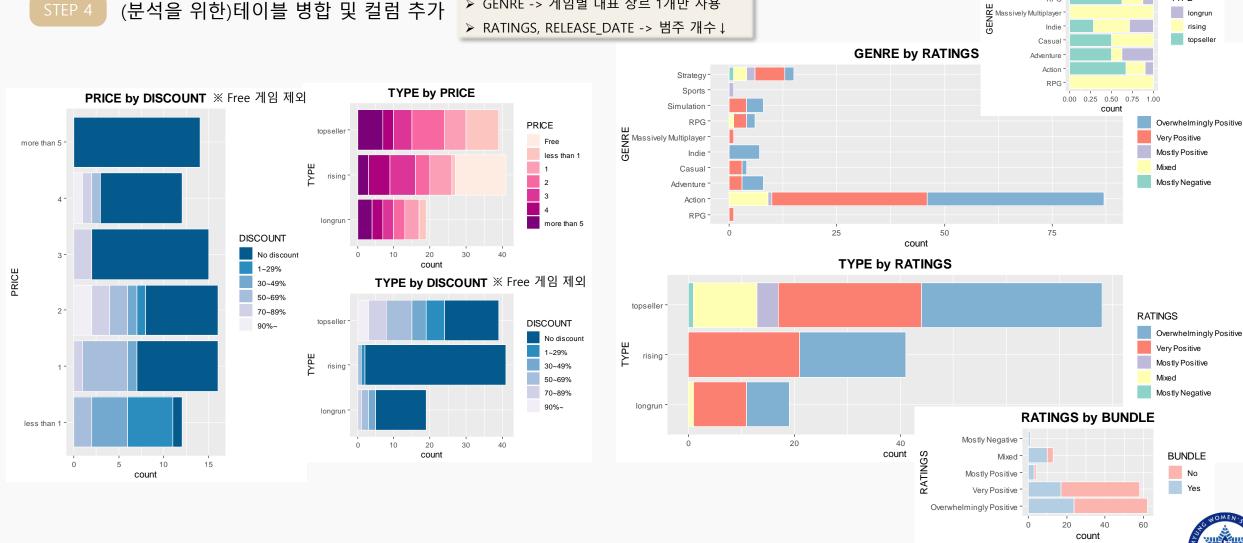
longrun

Strategy Sports :

Simulation -

RPG-

- ➤ GENRE -> 게임별 대표 장르 1개만 사용
- ➤ RATINGS, RELEASE_DATE -> 범주 개수↓

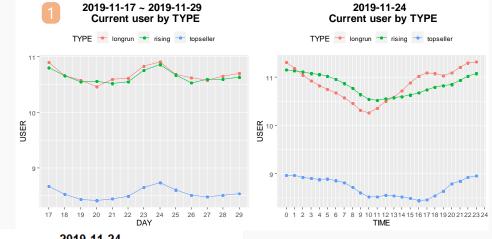


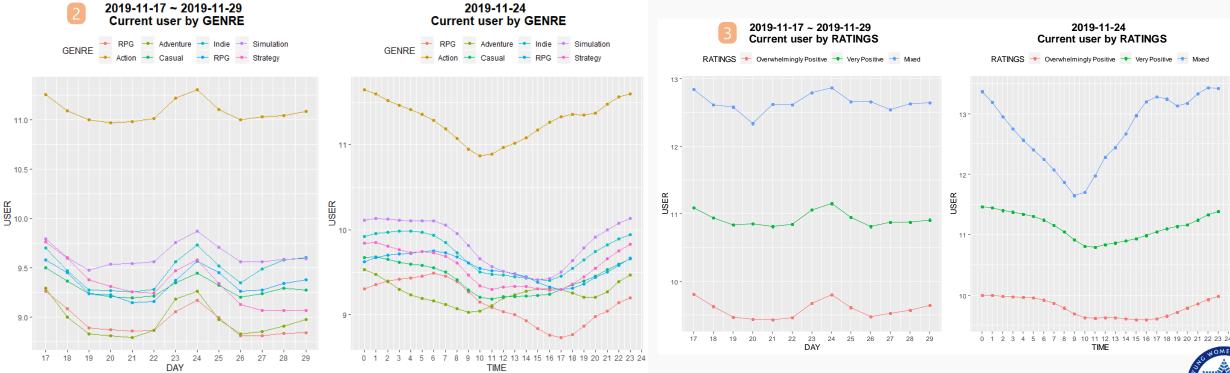
03 ^{분석 결과 -} 시각화

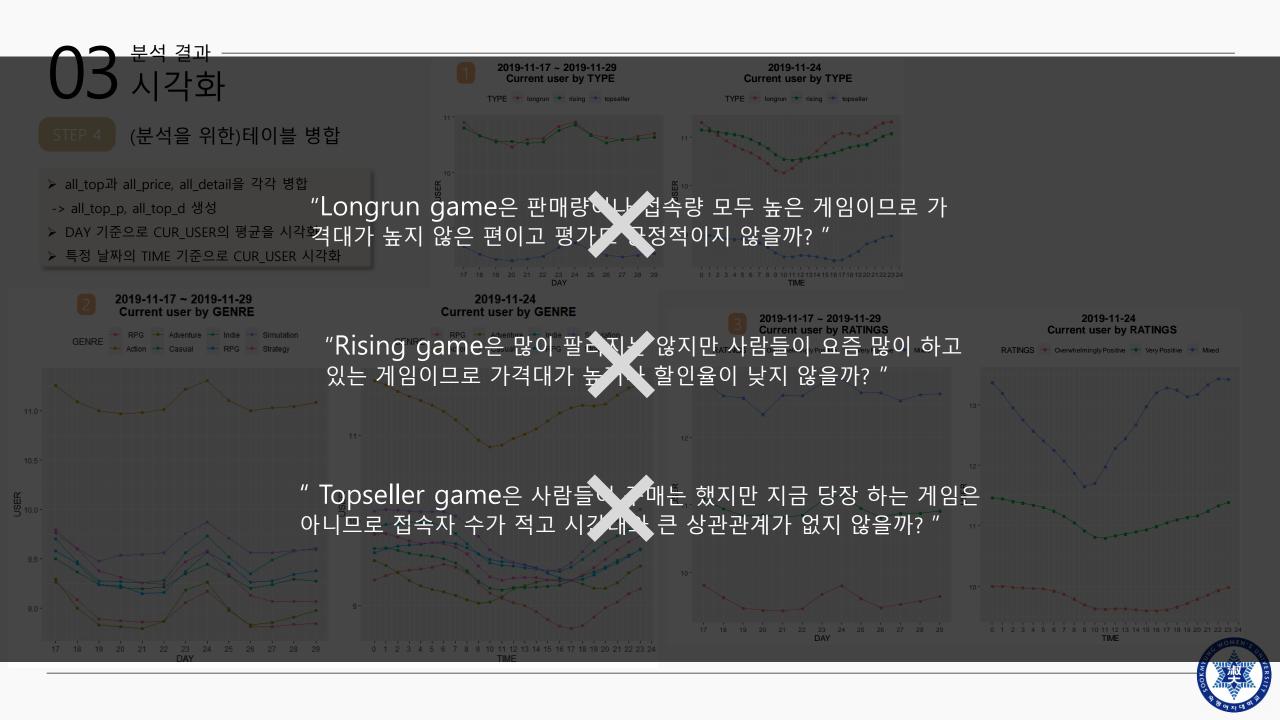
STEP 4

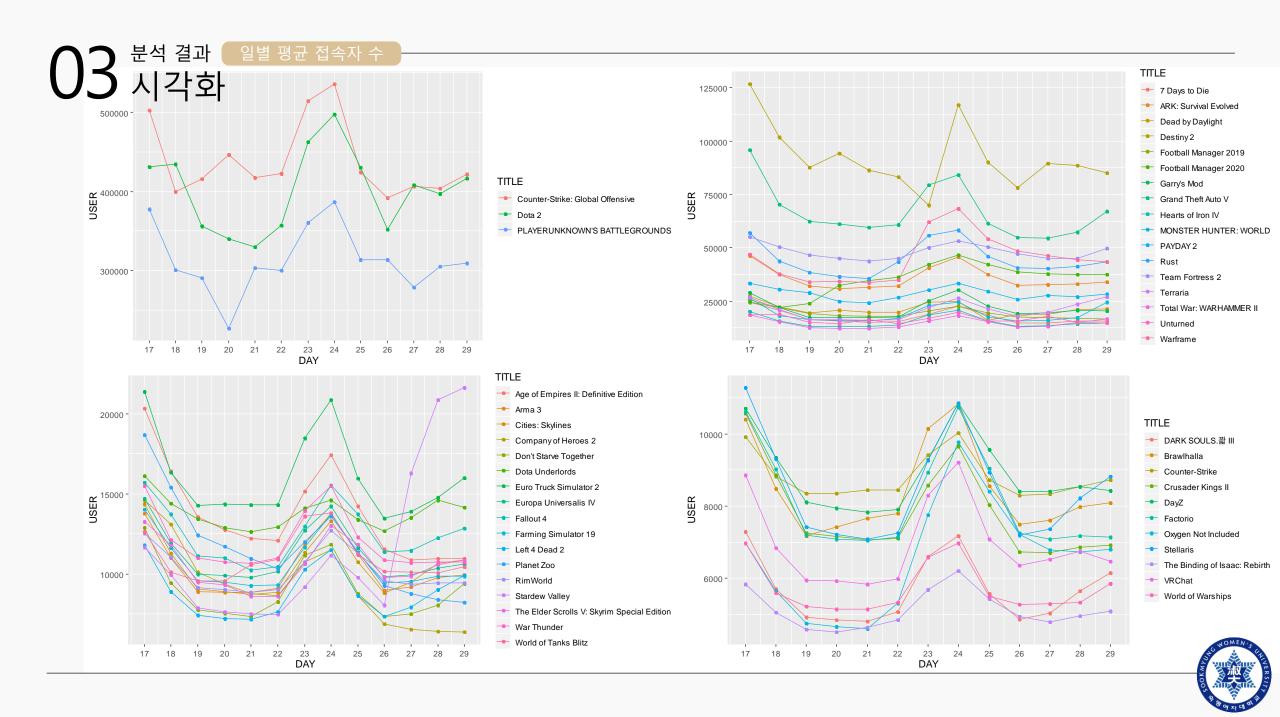
(분석을 위한)테이블 병합

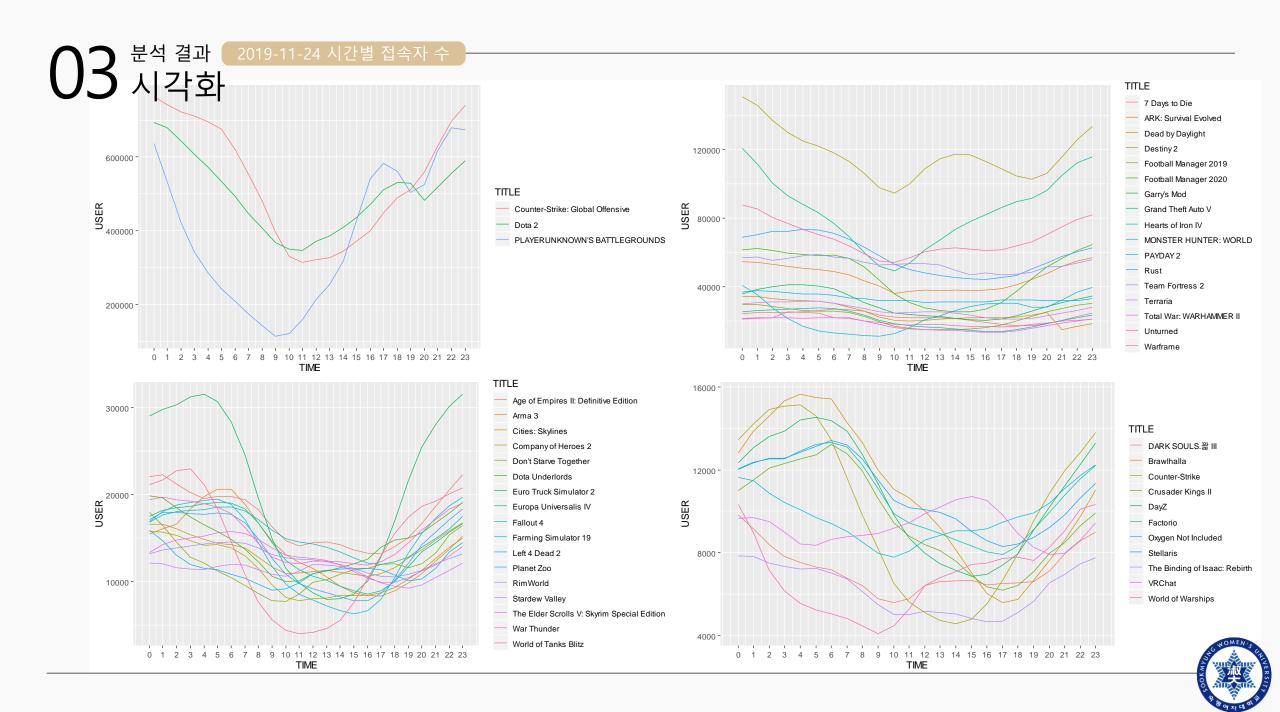
- ➤ all_top과 all_price, all_detail을 각각 병합
- -> all_top_p, all_top_d 생성
- ▶ DAY 기준으로 CUR_USER의 평균을 시각화
- ▶ 특정 날짜의 TIME 기준으로 CUR USER 시각화











03 ^{분석 결과} 시각화 10 -TITLE 7 Days to Die TITLE Age of Empires II: Definitive Edition ARK: Survival Evolved Dead by Daylight Counter-Strike: Global Offensive Dota Underlords Destiny 2 Euro Truck Simulator 2 30 -Dota 2 Fallout 4 RANK RANK Football Manager 2020 Football Manager 2019 Grand Theft Auto V Garry's Mod 40 PLAYERUNKNOWN'S BATTLEGROUNDS Hearts of Iron IV Rust MONSTER HUNTER: WORLD Team Fortress 2 PAYDAY 2 12 -Warframe Terraria 50 -Total War: WARHAMMER II Unturned 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 40 -TITLE - Arma 3 TITLE Cities: Skylines Company of Heroes 2 DARK SOULS.꽓 III DayZ Brawlhalla Don't Starve Together Counter-Strike RANK Europa Universalis IV Crusader Kings II RANK Farming Simulator 19 Factorio Left 4 Dead 2 Oxygen Not Included Planet Zoo Stellaris RimWorld The Binding of Isaac: Rebirth 80 -Stardew Valley VRChat The Elder Scrolls V: Skyrim Special Edition World of Warships 80 -War Thunder World of Tanks Blitz 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 TIME

레벨이 많은 범주형 변수를 제대로 다루지 못하였음

→ 장르와 검색 태그의 경우 다른 시각화나 범주화를 시도해야 함

GENRE POPULAR_TAGS

Simulation, Sports Simulation, Sports, Management, Soccer, Footba...

Action, Adventure Star Wars, Action, Adventure, Souls-like, Sing...

Third Person
Great Soundtrack

First-Person
Survival Horror

Soul-like Funny Crafting from the Post-spealypic
Story Richers Exploration Building source (Post-spealypic
Story Richers Exploration Building source)
Pythological Horror
Violent Physics

Violent Physics

Character Customization House Post-spealypic
Masterpiec Come of the Post-spealypic
Historical Stealth
Historical Stealth
Historical Stealth
Part Competitive Classic Green Management

Sci-fibifficult Competitive Classic Green Management

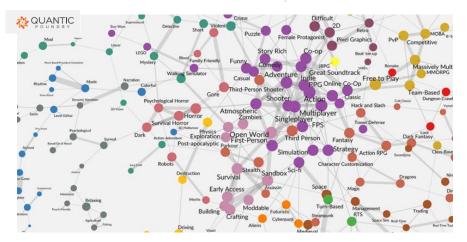
Sci-fibifficult Competitive Classic Green Management

Sci-fibifficult Competitive Classic Green Management

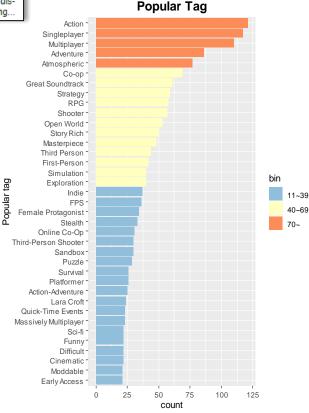
Third-Person Shooter August Multiplayer

Massively Multi

Massively Multiplayer
First-Person Tactical
Sandbox First Person Tactical
RPG Exploration Casual First Person Wooddable
Realistic First Person Wooddable
World War II Competitive First Person Building Historical
Realistic First Person Wooddable
Realistic First Perso



검색 태그 간 연관성을 바탕으로 범주화 → 장르를 새롭게 정의



수집한 데이터의 양이 너무 적고 도메인 지식이 부족하였음 →시각화에서 결과 해석으로 이어지는 부분이 미흡함

