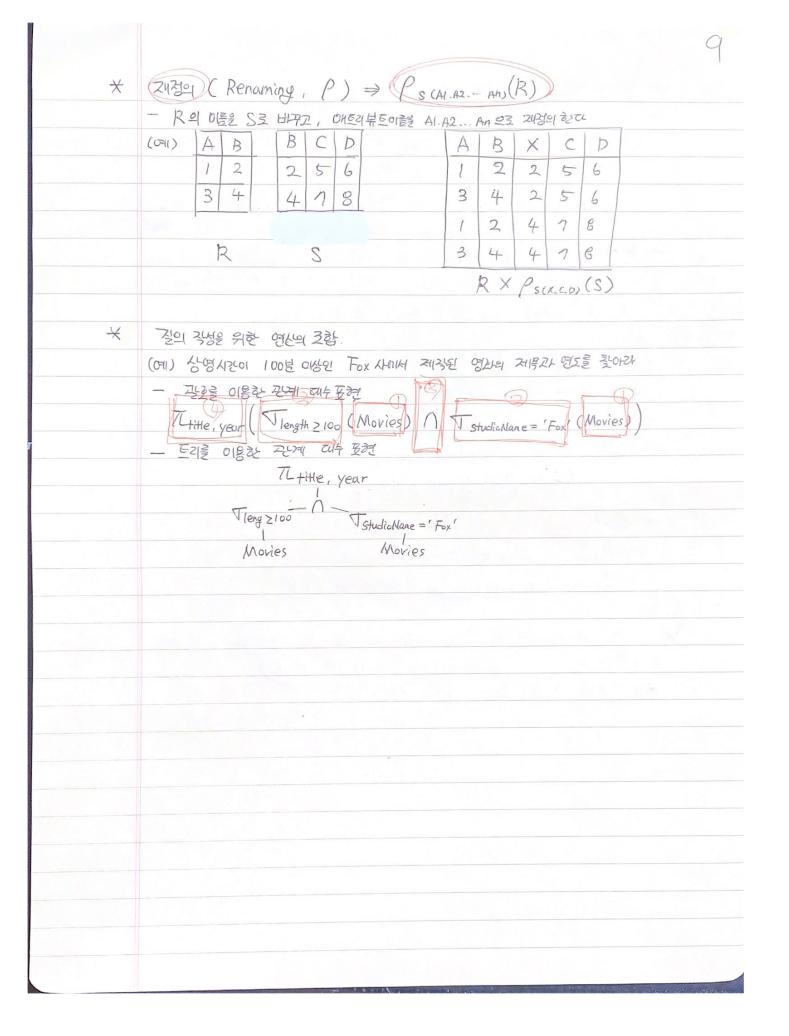
Chap 4	Algebraic Query Languages (THF 7421 Odm)								
Chap	Algebraie cearly enginese (on he out)								
	An Algebraic Queny Languages ([47] 2121 (201)								
*	Relational algebra)								
	- SQL의 श्रुव								
	- गरिष रेसाराख्याम पाउँ रेसाराये हे हिंह व प्रेन शिर् रिट्रिय रेसिस सिन्हें सार								
*	관계 때는의 3년								
	- C Lt Java 見け 弘川 刊かけ								
	- 컨파인러를 통해 회적한 집								
*	관계 때문의 연산 N - 돌발제가 : S(R)								
	- 일반적인 김합에는 (Union), Intersection, difference) 보고 기다 (R)								
	- 권기계의 원부를 제어하는 여전 (Selection, Projection) 기교는 기(R)								
	- 두 진개의 튜돌을 경합하는 면산 (Certesian product, Join) 건글 & 건(R)								
	- 0(를 년경 면산 (Fe naming)								
	THE NEW YORK								
	- 93 TEXT (intersection, Theta - Join, Joins)								
	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								
	- 71 20 1824 (Selection, Projection, Union, Difference, Certesian product)								
	The state of the s								
*	선미라오나: Union (U), Intersection (A), Difference (-)								
	- RZLS의 भारत हुं इंटिल्लिड इंटिलिड व्याप्त हुं ने पार्थ हिंदि ने प्राप्त हुं ने पार्थ हिंदि ने प्राप्त हैं ने								
*	長間 (Projection, TL) → TE ALAZ. An (R)								
7.	는 B (Projection , 1C) 구 (C AI.A2 An (R)) - R 의 AI. A2 An 충성만 가낸 관계를 생성								
	(ex)								
	Movies title year length genre								
	The year (Movies) title year								

* (HT) Selection (T) > TC(R) - C 조건은 인영하는 튜플들의 집합 title (OH) Movies length year 1911 124 StarWass 40 1999 104 length title Vergth > 120 (Movies) year 124 1911 Staruars * 3 (Cartesian Product, X) ⇒ RXS - RZI S의 투표생의 집합 (O=1) ARBSBCD B BCD 2 5 6 RXS * 2932 (Natural Joins, M) > R MS — R과S의 공통생이 대한 현재는 튜플 쌍원의 집합, 통원 연원제거 (OH) BIC 10 5 2 5 7 4 8 RMS S * LITER 29 (Theta Joins. Mc) > TC (RXS) = R McS - (3건을 모양하는 듀플만 선택 S.B S.C D (PII) A U.B U.C C CD A 4 2 3 4 2 2 3 2 5 3 5 2 3 10 1 10 7 8 7 8 10 10 U MAKO V



@ ====================================
* (관계 무결성) 2비야 크건
(CHI) Movie 길레이션에서 강 영과의 제공되는 본드시 Movie Exec 길레이션에 나는니니다란다
- The producer C# (Movies) (Movie Exec)
- The producer C# (Movies) - The certificate# (Movie Exec) = \$
Movies of prod & Movietxec of Cert and Hod (Deal Fret)
* 둘 이상의 어떤 리뷰트가 칼데하는 김 3년 주변 에 대명
(PI) Star In 32010 FILL GIE Movie 32019 15 LIEULOIS 3501
The movie Title, movie Year (Starln) (ST title, year (Movies)
* (月710g (唐特斯斯特)
(ex) Name of Key BLE ZH ZKIE (Moviestare) have address = 24)
MSI. hame = MSQ. name And MSI. address + MSQ. address (MSIXMS2) = 6
TE MSI = PMSI (hume, address) (Moviestar)
MS2 = PMS2 (name address) (Moviestar)
X (DHO) 2400)
(ex) Moviestar 到2410时加州 gender 01021年已经2 15124 M 电 对图
Typeder FF (And) gender FM (Movie Star) = \$
@ ZUNI CHEO 1595-97827. (Extended Operators of Relational Algebra)
* (34×12) (Duplicate elimination, S) > (S(R))
(en) A B A B
1 2 (= bag out Set 03 38 204)
3 4 3 4
$\lfloor 1 \rfloor 2 \leq S(R)$
R

							10					
*	프로젝션 연성사의	25% (T	(L) >	$\pi_L(R)$	_	4						
	(ex) A B	C	AX		X	Y						
	0 (2	0 3		1							
	R		-A, B+C -> X	(b)	TB-A>>	(b)						
	10	7.0	- A, BtC-X		(CB-A-)	1, 1-13-1 (1-)						
*	집단값 연상사 (A	tagregation of	perators, Si	un, AVG	Min, MAX, C	ount) > SUM	(B)					
	(091) A B	,										
	1 2 SUM(A) = $1+3+1=5$ 3 4 AVG(B) = $(2+4+2)/3 = 2.666$											
	1 2	COUNT	A) = 3									
. ✓	731 0											
*	그룹와 연선자 (Grouping operator, 82) > 82(R) - L을 기골으로 그룹과를 권했는다.											
		Studio Name	lounds	7								
	(ex) Movies	Disney	length 91			length) > lengthsum (Movies)						
		Disney	120		Movies StudioNume	Ipnoth Sum						
		MGM	150		Disney	217						
		MGM	95		MEM	245						
*	경력 연방 (So	orting operator	-, TL)	⇒ T_(R)							
	- LOI TEHI 5	를 돌을 정경										
	3											

- 허상류플 (3인이 되지 말한 류플) 도 경인경과에 포함

* (2)	011-15	201/10	1 -	b	510	,								
米 科								1 .	A L. C	1,1	\			
X (1)	27/12	(X)	R) =>	RI	MR	5		1:	MUL	L Valu	ne)			
* Aller				RI	Š S	\$		T 4		1		T		
	-	민족원	민부코인				1	A	-	С	D			
(ex)		BC		В	C	D		1	2	3	10			
	1	2 3		2	3	10		1	2	3	11			
	4	5 6		2	3	11		4	-	6	1			
	1	8 9		6	1	12		1	8	a	1			
		U	,		V			1	6	7	12			
									U	×1 V				
1	E	3 C.	D		1. A	18	CD		AI	J.B U.	C V.B	V.C	D	
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1	2	3	11		1	2	3 11		4	5 6	2	3	//	
4	5	- 6	1		1	6	1 12		1	8 9	2	3	10	
1	B	9	1			-	1RV		1	8 9	2	3	11	
		×LV				0 /	AK V		11.	2 3	1	1	1	
	V								1 -	11.	6	1	12	
									1	1 🖄	V			-
										A>V.				
											8 - 11			

6	Relat	tional	Ope	erodic	ons	On	Bags	(Ща	四色	BM8	(3			
*	전체	DB OIL	{ B	29											
		iet zh c			3301	नेष्ट्रश्त									
*	항집함,	현경함, 교생함, 차려함 (Union, Intersection, difference of bags, U.n)													
	(ex) A	$R = \{2.2.3\}$ $RUS = \{2.2.2.3.3.3\}$ $S = \{2.3.3\}$ $RUS = \{2.3.3\}$													
	S	$S = \{2.3.3\}$ $RAS = \{2.3\}$ $R - S = \{2\}$													
		$R-S=\{2\}$													
						A	B								
	A	В	Α	B		1	2		A	B	A	B	A	B	
	1	2	1	2		1	2		1	2	1	2	3	4	
	3	4		4		(2		3	4					
	11	2	3			3	4		RA	S	R	-5	S	-R	
	F	R S 3 4													
		3 4													
						R	VS								
*	58 (P	rojection	of	bogs	几										
	1	ABO				AI									
		1 2 5				1 2									
		3 4 6	-			3 4	-								
		1 2 /	-			1 2	_								
	L		1			/ 2									
		R				TLAB (P	()								
· · · · · · · · · · · · · · · · · · ·	10- 1	2 1				_ ,	_	-							
*	선택 (Selection	n on	bag	5,	VL)	→ /	1 c >	6 (R.)					
	(PI)		7		T.		7								
	A		-		A	BC	+								
	1	25	-		3	46									
	3	4 6	-		/	2/1	_								
	/	2/1			Vc	26 (R)									
		R													

* 3 (Product of bags, X) >> RXS (O4) A R.B S.B C B 3 4 5 RXS

* 39 (Join of bags , M) > RMR.BKSBS

0=(1)						
	A	B		B	C	1
	1	2		2	3	
	1	2		4	5	
				4	5	
	F	2	4	S		

						_	_	7
A	B	C	T	A	丸.B	S.B	C	
1	2	3		1	2	24	5	
1	2	3		1	2	4	5	
R	Z DM S	S		1	2	4	5	
				1	2	4	5	1
			-					al.

3

5

3

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2

4

R MRBESBS

G.

DB: DBMS = OBAIN ZUISIONE GIOTEI 52.

DBMS: 대용경의 데이터를 호를적으로 생성 및 관리 3년 2 2건시원들은 안전하게 관리를 이용하다

EIRBEYEI NZY: DBIT DESTELL MYSTER ideas TOUSON KIZY

EIREGEL 33 () () High-level - design

DB टार्टाहा इ ह्यालाह्याहा हैराक्ष्म 7301 साल्क्स्ट्र रामु

DB दारम्बह् होते . जिस अ दिल OFA के पान अपवि रिक्टिंग के देवे

म्मिड्स " इसेस्ट्रेश युरम् मृहस्ट रेस

E/R छल् : त्यावास्ता नेयाचे मेरे विस्ता प्राह्माई मार्ग हेले रूप हेले

E/R THIONY E/R S THE LINE E/R S THE E/R THIONY E/R S THE E/R S TH

1716+ 3 CHOITHE 22/3/21 73

2/24101A974 : 741012481 ह्येश्व 32€ Donath nege Asin Fett 5 रो

नेंद्रा रिहेन रेमरेष्ट्रा रेसलिश लिएह रेगरे 93 हेन के रे रिनटम केटम

स्थारे DB पा असे से हिंदी DB मार्ड सेंध है। ति से हिंदी

AHOF : 2/214/214 C1321 2/211C/24 C1152/85/50/ 2/8.