

Software Project Database Design
Version 1.0

2007. 6. 9

Library DB Scenario Team

개정이력

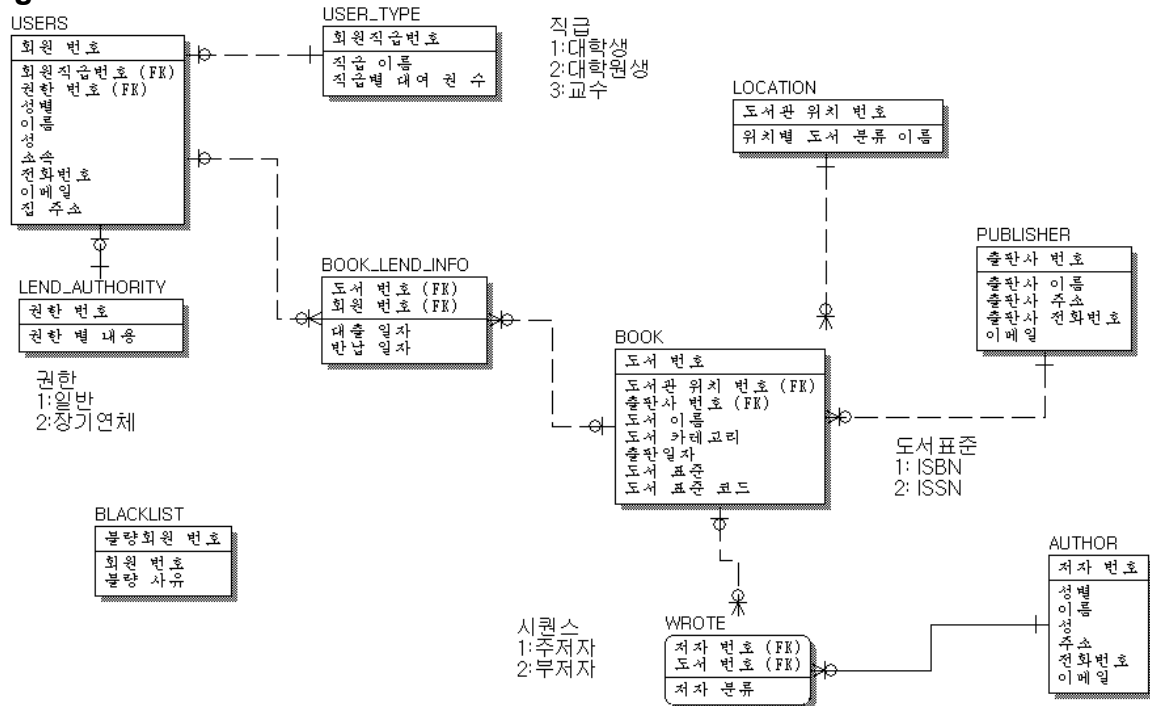
개정번호	개정일자	개정자	개정사유	개정내용	승인일자	비고
1.00	2007-06-09	서오석	신규제정	문서의 초안 생성	2007-06-09	

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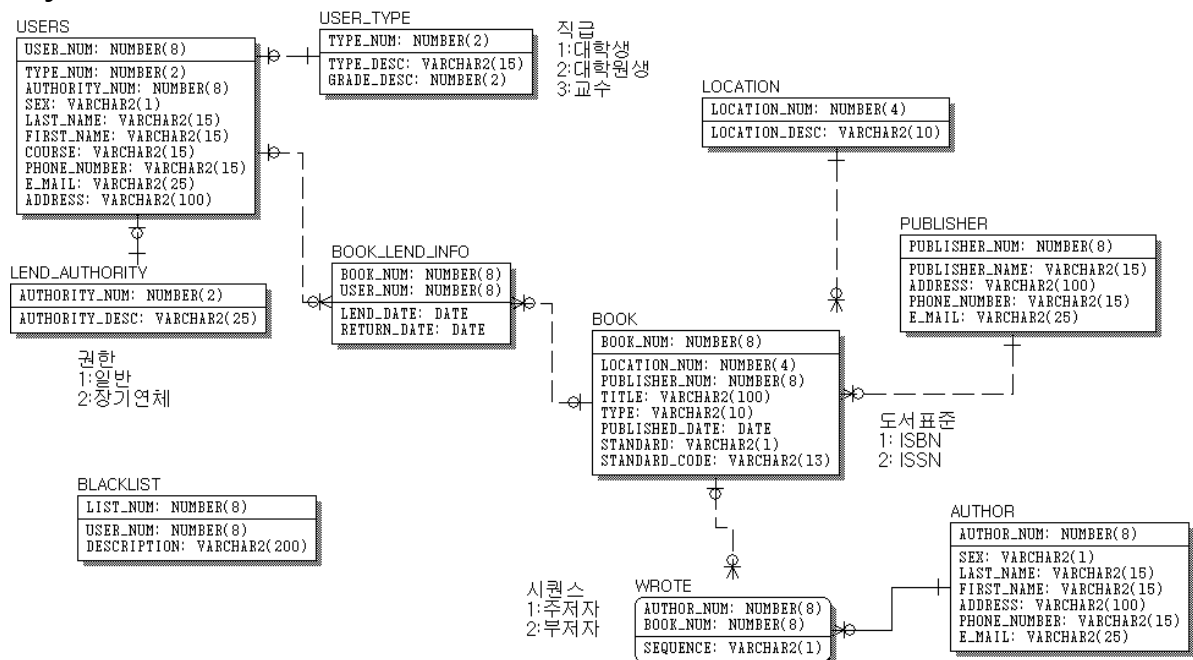
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1.0 ER Diagram Logical Review



Physical Review



2.0 Table Detail Design

시스템명	도서 대출 시스템			페이지	1			
테이블 ID	USERS			작성일	2007-06-09			
테이블명	회원			작성자	서오석			
순번	한글명	영문명	데이터타입(길이)	NULL	Default	PK	FK	속성정의
1	회원번호	USER_NUM	NUMBER(8)	N		Y		학번
2	성별	SEX	VARCHAR2(1)					1: 남자 2: 여자
3	성	FIRST_NAME	VARCHAR2(15)					
4	이름	LAST_NAME	VARCHAR2(15)					
5	소속	COURSE	VARCHAR2(15)					
6	전화번호	PHONE_NUM BER	VARCHAR2(15)					
7	이메일	E_MAIL	VARCHAR2(25)					
8	집주소	ADDRESS	VARCHAR2(100)					
9	권한번호	AUTHORITY_N UM	NUMBER(8)				Y	
10	회원직급번호	TYPE_NUM	NUMBER(2)				Y	
Primary key								
USER_NUM								

시스템명	도서 대출 시스템			페이지	2			
테이블 ID	LEND_AUTHORITY			작성일	2007-06-09			
테이블명	대출 권한			작성자	서오석			
순번	한글명	영문명	데이터타입(길이)	NULL	Default	PK	FK	속성정의
1	권한번호	AUTHORITY_N UM	NUMBER(8)	N		Y		
2	권한 별 내용	AUTHORITY_D SC	VARCHAR2(25)		1			1:일반 2:장기연체
Primary key								
AUTHORITY_NUM								

시스템명	도서 대출 시스템			페이지	3			
테이블 ID	USER_TYPE			작성일	2007-06-09			
테이블명	회원직급			작성자	서오석			
순번	한글명	영문명	데이터타입(길이)	NULL	Default	PK	FK	속성정의
1	회원직급번호	TYPE_NUM	NUMBER(2)	N		Y		1:대학생 2:대학원생 3:교수
2	직급이름	TYPE_DESC	VARCHAR2(15)					
3	직급별대여권 수	GRADE_DESC	NUMBER(2)					
Primary key								
TYPE_NUM								

시스템명	도서 대출 시스템			페이지	4			
테이블 ID	BOOK			작성일	2007-06-09			
테이블명	도서정보			작성자	서오석			
순번	한글명	영문명	데이터타입(길이)	NULL	Default	PK	FK	속성정의
1	도서번호	BOOK_NUM	NUMBER(8)	N		Y		
2	도서위치번호	LOCATION_NUM	NUMBER(4)	N			Y	
3	출판사번호	PUBLISHER_NUM	NUMBER(8)				Y	
4	도서이름	TITLE	VARCHAR2(100)					
5	도서카테고리	TYPE	VARCHAR2(10)					
6	출판일자	PUBLISHED_DATE	DATE					
7	도서표준	STANDARD	VARCHAR2(1)					1:ISBN 2:ISSN
8	도서표준코드	STANDARD_CODE	VARCHAR2(13)					
Primary key								
BOOK_NUM								

시스템명	도서 대출 시스템			페이지	5			
테이블 ID	BOOK_LEND_INFO			작성일	2007-06-09			
테이블명	대여 정보			작성자	서오석			
순번	한글명	영문명	데이터타입(길이)	NULL	Default	PK	FK	속성정의
1	회원번호	USER_NUM	NUMBER(8)	N		Y		
2	도서번호	BOOK_NUM	NUMBER(8)	N		Y		
3	도서위치번호	LOCATION_NUM	NUMBER(4)				Y	
4	대출일자	LEND_DATE	DATE					
5	반납일자	RETURN_DATE	DATE					
Primary key								
USER_NUM, BOOK_NUM								

시스템명	도서 대출 시스템			페이지	6			
테이블 ID	LOACTION			작성일	2007-06-09			
테이블명	도서위치정보			작성자	서오석			
순번	한글명	영문명	데이터타입(길이)	NULL	Default	PK	FK	속성정의
1	위치번호	LOCATION_NUM	NUMBER(4)	N		Y		
2	위치명	LOCATION_DESC	VARCHAR2(10)					
Primary key								
LOCATION_NUM								

시스템명	도서 대출 시스템			페이지	7			
테이블 ID	PUBLISHER			작성일	2007-06-09			
테이블명	출판사 정보			작성자	서오석			
순번	한글명	영문명	데이터타입(길이)	NULL	Default	PK	FK	속성정의
1	출판사번호	PUBLISHER_NUM	NUMBER(8)	N		Y		
2	출판사이름	PUBLISHER_NAME	VARCHAR2(30)					
3	출판사주소	ADDRESS	VARCHAR2(100)					
4	전화번호	PHONE_NUMBER	VARCHAR2(15)					
5	이메일	E_MAIL	VARCHAR2(25)					

Primary key
PUBLISHER_NUM

시스템명	도서 대출 시스템			페이지	8			
테이블 ID	WROTE			작성일	2007-06-09			
테이블명	저자 서적 분류			작성자	서오석			
순번	한글명	영문명	데이터타입(길이)	NULL	Default	PK	FK	속성정의
1	도서번호	BOOK_NUM	NUMBER(8)	N		Y	Y	
2	저자번호	AUTHOR_NUM	NUMBER(8)	N		Y	Y	
3	저자분류	SEQUENCE	VARCHAR2(1)					1:주저자 2:부저자
Primary key								
BOOK_NUM, AUTHOR_NUM								

시스템명	도서 대출 시스템			페이지	9			
테이블 ID	AUTHOR			작성일	2007-06-09			
테이블명	저자			작성자	서오석			
순번	한글명	영문명	데이터타입(길이)	NULL	Default	PK	FK	속성정의
1	저자번호	AUTHOR_NUM	NUMBER(8)	N		Y		
2	성별	SEX	VARCHAR2(1)					1:남자 2:여자
3	이름	LAST_NAME	VARCHAR2(15)					
4	성	FIRST_NAME	VARCHAR2(15)					
5	주소	ADDRESS	VARCHAR2(100)					
6	전화번호	PHONE_NUMBER	VARCHAR2(15)					
7	이메일	E_MAIL	VARCHAR2(25)					
Primary key								
AUTHOR_NUM								

시스템명	도서 대출 시스템			페이지	10			
테이블 ID	BLACKLIST			작성일	2007-06-09			
테이블명	블랙리스트			작성자	서오석			
순번	한글명	영문명	데이터타입(길이)	NULL	Default	PK	FK	속성정의
1	회원번호	LIST_NUM	NUMBER(8)	N		Y		학번
2	불량 사유	DESCRIPTION	VARCHAR2(200)					
Primary key								
BLACKLIST								

3.0 DDL CREATE SQL

3.1 저자

```
CREATE TABLE AUTHOR (
    AUTHOR_NUM          NUMBER(8) NOT NULL,
    SEX                  VARCHAR2(1) NULL,
    LAST_NAME            VARCHAR2(15) NULL,
    FIRST_NAME           VARCHAR2(15) NULL,
    ADDRESS               VARCHAR2(100) NULL,
    PHONE_NUMBER          VARCHAR2(15) NULL,
    E_MAIL                VARCHAR2(25) NULL,
    CONSTRAINT XPKAUTHOR
        PRIMARY KEY (AUTHOR_NUM)
);
```

3.2 도서 위치 정보

```
CREATE TABLE LOCATION (
    LOCATION_NUM          NUMBER(4) NOT NULL,
    LOCATION_DESC          VARCHAR2(10) NULL,
    CONSTRAINT XPKLOCATION
        PRIMARY KEY (LOCATION_NUM)
);
```

3.3 출판사 정보

```
CREATE TABLE PUBLISHER (
    PUBLISHER_NUM          NUMBER(8) NOT NULL,
    PUBLISHER_NAME          VARCHAR2(15) NULL,
    ADDRESS                 VARCHAR2(100) NULL,
    PHONE_NUMBER            VARCHAR2(15) NULL,
    E_MAIL                  VARCHAR2(25) NULL,
    CONSTRAINT XPKPUBLISHER
        PRIMARY KEY (PUBLISHER_NUM)
);
```

3.4 도서 정보

```
CREATE TABLE BOOK (  
    BOOK_NUM          NUMBER(8) NOT NULL,  
    LOCATION_NUM      NUMBER(4) NOT NULL,  
    PUBLISHER_NUM      NUMBER(8) NOT NULL,  
    TITLE              VARCHAR2(100) NULL,  
    TYPE               VARCHAR2(10) NULL,  
    PUBLISHED_DATE     DATE NULL,  
    STANDARD            VARCHAR2(1) NULL,  
    STANDARD_CODE       VARCHAR2(13) NULL,  
    CONSTRAINT XPKBOOK  
        PRIMARY KEY (BOOK_NUM),  
    CONSTRAINT R_15  
        FOREIGN KEY (LOCATION_NUM)  
            REFERENCES LOCATION,  
    CONSTRAINT R_9  
        FOREIGN KEY (PUBLISHER_NUM)  
            REFERENCES PUBLISHER  
);
```

3.5 저자 서적 분류

```
CREATE TABLE WROTE (  
    BOOK_NUM          NUMBER(8) NOT NULL,  
    SEQUENCE           VARCHAR2(1) NULL,  
    AUTHOR_NUM         NUMBER(8) NOT NULL,  
    CONSTRAINT XPKWROTE  
        PRIMARY KEY (AUTHOR_NUM, BOOK_NUM),  
    CONSTRAINT R_12  
        FOREIGN KEY (AUTHOR_NUM)  
            REFERENCES AUTHOR,  
    CONSTRAINT R_11  
        FOREIGN KEY (BOOK_NUM)  
            REFERENCES BOOK  
);
```

3.6 회원 직급

```
CREATE TABLE USER_TYPE (  
    TYPE_NUM           NUMBER(2) NOT NULL,  
    TYPE_DESC           VARCHAR2(15) NULL,  
    GRADE_DESC          NUMBER(2) NULL,  
    CONSTRAINT XPKUSER_TYPE  
        PRIMARY KEY (TYPE_NUM)  
);
```

3.7 대출 권한

```
CREATE TABLE LEND_AUTHORITY (  
    AUTHORITY_NUM        NUMBER(2) NOT NULL,  
    AUTHORITY_DESC        VARCHAR2(25) NULL,  
    CONSTRAINT XPKLEND_AUTHORITY  
        PRIMARY KEY (AUTHORITY_NUM)  
);
```

3.8 회원

```
CREATE TABLE USERS (  
    USER_NUM              NUMBER(8) NOT NULL,  
    AUTHORITY_NUM          NUMBER(8) NOT NULL,  
    SEX                    VARCHAR2(1) NULL,  
    FIRST_NAME              VARCHAR2(15) NULL,  
    LAST_NAME               VARCHAR2(15) NULL,  
    COURSE                  VARCHAR2(15) NULL,  
    PHONE_NUMBER            VARCHAR2(15) NULL,  
    E_MAIL                  VARCHAR2(25) NULL,  
    ADDRESS                  VARCHAR2(100) NULL,  
    TYPE_NUM                NUMBER(2) NOT NULL,  
    CONSTRAINT XPKUSERS  
        PRIMARY KEY (USER_NUM),  
    CONSTRAINT R_17  
        FOREIGN KEY (AUTHORITY_NUM)  
            REFERENCES LEND_AUTHORITY,  
    CONSTRAINT R_3  
        FOREIGN KEY (TYPE_NUM)  
            REFERENCES USER_TYPE  
);
```

3.9 대출 정보

```
CREATE TABLE BOOK_LEND_INFO (  
    LEND_NUM                NUMBER(8) NOT NULL,  
    LEND_DATE                DATE NULL,  
    RETURN_DATE              DATE NULL,  
    BOOK_NUM                 NUMBER(8) NOT NULL,  
    USER_NUM                 NUMBER(8) NOT NULL,  
    CONSTRAINT XPKBOOK_LEND_INFO  
        PRIMARY KEY (LEND_NUM),  
    CONSTRAINT R_20  
        FOREIGN KEY (BOOK_NUM)  
            REFERENCES BOOK,  
    CONSTRAINT R_19  
        FOREIGN KEY (USER_NUM)
```

```
REFERENCES USERS
```

```
);
```

3.10 블랙리스트

```
CREATE TABLE BLACKLIST (  
    LIST_NUM          NUMBER(8) NOT NULL,  
    USER_NUM          NUMBER(8) NOT NULL,  
    DESCRIPTION        VARCHAR2(200) NULL,  
    CONSTRAINT XPKBLACKLIST  
        PRIMARY KEY (LIST_NUM)  
);
```

4.0 Data loading

4.1 저자

```
INSERT INTO AUTHOR  
VALUES  
(4, 2, 'Noh', 'Taesin', 'Seoul', '767-9984', 'Notae@daum.net');  
INSERT INTO AUTHOR  
VALUES  
(5, 1, 'Sung', 'Kiwon', 'Busan', '445-1112', 'Soul@naver.com');  
INSERT INTO AUTHOR  
VALUES  
(6, 1, 'Kim', 'Jieun', 'Anyang', '229-9988', 'Elegarden@smu.ac.kr');  
INSERT INTO AUTHOR  
VALUES  
(7, 2, 'Iron', 'Maiden', 'LA', '249-0898', 'fear@nate.com');  
INSERT INTO AUTHOR  
VALUES  
(8, 1, 'Dream', 'Theater', 'Boston', '223-5556', 'Dream1982@nate.com');  
INSERT INTO AUTHOR  
VALUES  
(9, 1, 'Off', 'Spring', 'Suyoo', '6654-0110', 'spring@naver.com');  
INSERT INTO AUTHOR  
VALUES  
(10, 1, 'Green', 'Day', 'Walla', '5568-0043', 'Walla2@smu.ac.kr');  
INSERT INTO AUTHOR  
VALUES  
(11, 1, 'Ivy', 'Hyori', 'Music', '1267-2223', 'Sexygirl@daum.net');  
INSERT INTO AUTHOR  
VALUES  
(12, 1, 'Jung', 'Down', 'Heart', '104-3453', 'Mylover@smu.ac.kr');  
INSERT INTO AUTHOR  
VALUES
```

```
('13', '2', 'Seo', 'Osuk', 'Hongeun', '667-9999', '5dols@naver.com');  
INSERT INTO AUTHOR  
VALUES  
( '14', '1', 'Rionel', 'Messi', 'Argen', '842-0088', 'soccer@lycos.com');  
INSERT INTO AUTHOR  
VALUES  
( '15', '1', 'Frank', 'Lampard', 'England', '990-3777', 'middlefield@river.com');
```

4.2 도서 위치 정보

```
INSERT INTO LOCATION  
VALUES  
( '1', 'Fiction');  
INSERT INTO LOCATION  
VALUES  
( '2', 'Computer');  
INSERT INTO LOCATION  
VALUES  
( '3', 'History');  
INSERT INTO LOCATION  
VALUES  
( '4', 'Science');  
INSERT INTO LOCATION  
VALUES  
( '5', 'Biography');  
INSERT INTO LOCATION  
VALUES  
( '6', 'Nonfiction');  
INSERT INTO LOCATION  
VALUES  
( '7', 'Finance');  
INSERT INTO LOCATION  
VALUES  
( '8', 'Art');  
INSERT INTO LOCATION  
VALUES  
( '9', 'Etc');
```

4.3 출판사 정보

```
INSERT INTO PUBLISHER  
VALUES  
( '1', 'Bantam', 'Suwon', '234-1456', 'Bantam@bantam.com');  
INSERT INTO PUBLISHER  
VALUES  
( '2', 'Penguin USA', 'Tokyo', '436-3256', 'PUSA@pusa.com');
```

```
VALUES
('3', 'Addison-Wesley', 'Hawai', '27-8456', 'Addison@aw.com');
INSERT INTO PUBLISHER
VALUES
('4', 'Press', 'Seoul', '897-9754', 'Press@press.com');
INSERT INTO PUBLISHER
VALUES
('5', 'AK Peters', 'Anyang', '456-7656', 'AK@ak.com');
INSERT INTO PUBLISHER
VALUES
('6', 'Palgrave', 'Busan', '987-2638', 'Palgrave@pm.com');
INSERT INTO PUBLISHER
VALUES
('7', 'Random House', 'Ansan', '878-4347', 'Random@rh.com');
INSERT INTO PUBLISHER
VALUES
('8', 'Black Rabbit', 'Kyoto', '909-1013', 'Black@br.com');
INSERT INTO PUBLISHER
VALUES
('9', 'Oxford Univ', 'Osaka', '787-1010', 'Oxford@ou.com');
INSERT INTO PUBLISHER
VALUES
('10', 'Skylight Pub', 'Inchon', '2444-5667', 'Skylight@sp.com');
INSERT INTO PUBLISHER
VALUES
('11', 'School Special', 'Gumi', '5060-1121', 'SchoolS@ss.com');
INSERT INTO PUBLISHER
VALUES
('12', 'McGraw Hill', 'Jeju', '3943-1034', 'Mcgraw@mh.com');
INSERT INTO PUBLISHER
VALUES
('13', 'Prentice Hall', 'Sanghai', '234-7390', 'Prentice@ph.com');
INSERT INTO PUBLISHER
VALUES
('14', 'Perseus', 'Boston', '6578-1003', 'Perseus@per.com');
INSERT INTO PUBLISHER
VALUES
('15', 'Taschen', 'Seoul', '2220-7698', 'Taschen@tas.com');
INSERT INTO PUBLISHER
VALUES
('16', 'McGraw Media', 'Suwon', '1114-4111', 'McGraw@media.com');
INSERT INTO PUBLISHER
```

```
('17', 'John Sons', 'Inchon', '299-2255', 'Johnsons@js.com');
```

```
INSERT INTO PUBLISHER
```

```
VALUES
```

```
('18', 'Independent', 'Suwon', '909-0080', 'Independent@ind.com');
```

4.4 도서 정보

```
INSERT INTO BOOK
```

```
VALUES
```

```
('1', '1', '1', '50 Great Short Stories', 'Fiction', '1995-07-01', '1', '0553277456');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('2', '1', '2', 'Charlie and the Chocolate Factory', 'Fiction', '1998-11-01', '1', '0141301155');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('3', '2', '3', 'Art of Computer Programming Vol.1', 'Computer', '1997-6-1', '1', '0201896834');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('4', '2', '4', 'Ai Techniques for Game Programming', 'Computer', '2002-10-01', '1', '193184108X');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('5', '2', '5', 'Computer Arithmetic Algorithms', 'Computer', '2001-11-01', '1', '1568811608');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('6', '3', '6', 'Andreas Capellanus On Love?', 'History', '2007-06-26', '1', '1403967709');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('7', '3', '6', 'Langland"s Early Modern Id', 'History', '2007-11-27', '1', '140396517X');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('8', '1', '2', 'Around the World in 80 Days', 'Fiction', '2004-01-01', '1', '014036711X');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('9', '1', '7', 'The Giver', 'Fiction', '2002-09-01', '1', '0440237688');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('10', '2', '5', 'Data Structure', 'Computer', '1989-02-14', '2', '1596450653');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('11', '4', '8', 'Food And the World', 'Science', '2007-01-01', '1', '1596040653');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```
('12', '5', '9', 'Francis Crick and James Watson', 'Biography', '1998-05-01', '1', '0195114515');
```

```
INSERT INTO BOOK
```

```
VALUES
```

```

('13', '5', '9', 'Galileo Galilei', 'Biography', '1999-03-01', '2', '0195131703');
INSERT INTO BOOK
VALUES
('14', '2', '10', 'Java Methods a And Ab', 'Computer', '2006-03-15', '1', '0972705570');
INSERT INTO BOOK
VALUES
('15', '6', '11', 'Total Reading', 'Nonfiction', '2005-05-09', '2', '076963883X');
INSERT INTO BOOK
VALUES
('16', '7', '12', 'The Big Book of Flip Charts', 'Finance', '1999-10-01', '2', '0071343113');
INSERT INTO BOOK
VALUES
('17', '7', '13', 'Options, Futures, and Other Derivatives', 'Finance', '2006-01-01', '2', '0131977059');
INSERT INTO BOOK
VALUES
('18', '8', '14', 'World Graphic Design', 'Art', '2004-04-01', '1', '1858942195');
INSERT INTO BOOK
VALUES
('19', '8', '15', 'Marc Chagall (Taschen Portfolio)', 'Art', '2003-09-01', '1', '3822828866');
INSERT INTO BOOK
VALUES
('20', '2', '16', 'Oracle Database 10G Xml N SQL', 'Computer', '2004-07-01', '2', '0072229527');
INSERT INTO BOOK
VALUES
('21', '2', '17', 'Enterprise Architecture Planning', 'Computer', '1992-11-01', '1', '0471599859');
INSERT INTO BOOK
VALUES
('22', '2', '18', 'Maximum Lego Nxt', 'Computer', '2007-04-30', '2', '0973864915');
INSERT INTO BOOK
VALUES
('23', '2', '4', 'Developing Drivers', 'Computer', '2007-04-25', '1', '0735623740');
INSERT INTO BOOK
VALUES
('24', '2', '16', 'Aix 5L Administration', 'Computer', '2002-08-01', '1', '0072222557');
INSERT INTO BOOK
VALUES
('25', '2', '5', 'Games And Simulations', 'Computer', '2006-09-30', '1', '1599043041');
INSERT INTO BOOK
VALUES
('26', '9', '10', 'Ribbonwork The Complete Guide', 'Etc', '2004-07-01', '1', '0873497503');
INSERT INTO BOOK
VALUES
('27', '9', '10', 'The Secrets of Fashioning Flowers', 'Etc', '1998-02-01', '2', '0873415620');

```

```
INSERT INTO BOOK
VALUES
('28', '7', '13', 'Grid Computing', 'Finance', '1999-04-09', '1', '0131456601');
INSERT INTO BOOK
VALUES
('29', '7', '9', 'Introduction to the Economics', 'Finance', '2003-06-16', '1', '0199243255');
INSERT INTO BOOK
VALUES
('30', '2', '15', 'Google Pagerank and Beyond', 'Computer', '2006-07-13', '2', '0691122024');
INSERT INTO BOOK
VALUES
('31', '2', '13', 'Human-Computer Interaction', 'Computer', '2003-09-01', '1', '0130461091');
```

4.5 저자 서적 분류

```
INSERT INTO WROTE
VALUES
('1', '1', '1');
INSERT INTO WROTE
VALUES
('1', '5', '2');
INSERT INTO WROTE
VALUES
('2', '2', '1');
INSERT INTO WROTE
VALUES
('3', '3', '1');
INSERT INTO WROTE
VALUES
('4', '4', '1');
INSERT INTO WROTE
VALUES
('5', '5', '1');
INSERT INTO WROTE
VALUES
('6', '6', '1');
INSERT INTO WROTE
VALUES
('6', '13', '2');
INSERT INTO WROTE
VALUES
('7', '7', '1');
INSERT INTO WROTE
VALUES
('8', '8', '1');
```

```
INSERT INTO WROTE
VALUES
('9', '9', '1');
INSERT INTO WROTE
VALUES
('9', '3', '2');
INSERT INTO WROTE
VALUES
('10', '10', '1');
INSERT INTO WROTE
VALUES
('11', '11', '1');
INSERT INTO WROTE
VALUES
('12', '12', '1');
INSERT INTO WROTE
VALUES
('13', '13', '1');
INSERT INTO WROTE
VALUES
('14', '14', '1');
INSERT INTO WROTE
VALUES
('15', '15', '1');
INSERT INTO WROTE
VALUES
('16', '14', '1');
INSERT INTO WROTE
VALUES
('16', '4', '2');
INSERT INTO WROTE
VALUES
('17', '7', '1');
INSERT INTO WROTE
VALUES
('17', '15', '2');
INSERT INTO WROTE
VALUES
('18', '4', '1');
INSERT INTO WROTE
VALUES
('18', '7', '2');
INSERT INTO WROTE
```

```
VALUES
('19', '2', '1');
INSERT INTO WROTE
VALUES
('20', '2', '1');
INSERT INTO WROTE
VALUES
('21', '7', '1');
INSERT INTO WROTE
VALUES
('22', '9', '1');
INSERT INTO WROTE
VALUES
('22', '3', '2');
INSERT INTO WROTE
VALUES
('23', '10', '1');
INSERT INTO WROTE
VALUES
('23', '5', '2');
INSERT INTO WROTE
VALUES
('24', '5', '1');
INSERT INTO WROTE
VALUES
('24', '11', '2');
INSERT INTO WROTE
VALUES
('25', '13', '1');
INSERT INTO WROTE
VALUES
('26', '12', '1');
INSERT INTO WROTE
VALUES
('27', '12', '1');
INSERT INTO WROTE
VALUES
('28', '9', '1');
INSERT INTO WROTE
VALUES
('29', '13', '1');
INSERT INTO WROTE
VALUES
```

```
('29', '7', '2');
INSERT INTO WROTE
VALUES
('30', '6', '1');
INSERT INTO WROTE
VALUES
('30', '14', '2');
INSERT INTO WROTE
VALUES
('31', '3', '1');
```

4.6 회원 직급

```
insert into user_type
values(1,'대학생',5);
insert into user_type
values(2,'대학원생',10);
insert into user_type
values(3,'교수',15);
```

4.7 대출 권한

```
insert into lend_authority
values(1,'일반');
insert into lend_authority
values(2,'장기연체');
```

4.8 회원

```
insert into users
values(19901111,1,'1','lim','jwasang','software','011-9018-8311','aaaaa@smu.ac.kr','seoul',3);
insert into users
values(19901112,1,'2','lim','jwasun','economy','011-8976-7654','bbbbbb@hotmail.com','incheon',3);
insert into users
values(19901113,1,'1','lim','jasin','music','011-8765-9876','asdf@smu.ac.kr','seoul',3);
insert into users
values(19901114,1,'2','lim','jin','art','018-9018-8311','qwer@smu.ac.kr','seoul',3);
insert into users
values(19901115,1,'1','park','jiyeon','food','017-9018-8311','zxcv@smu.ac.kr','seoul',3);
insert into users
values(19971114,1,'2','jung','deasick','computer','010-1234-5678','qwer@smu.ac.kr','incheon',2);
insert into users
values(19971115,1,'1','park','kangryung','computer','001-5678-9876','zxcv@smu.ac.kr','pusan',3);
insert into users
values(19991001,1,'2','kim','su','se','011-9018-8311','aaaaa@smu.ac.kr','seoul',1);
insert into users
values(19991002,1,'2','kang','jiwon','se','011-8976-7654','bbbbbb@hotmail.com','incheon',1);
insert into users
```

```
values(19991003,1,'2','lee','yumi','se','011-8765-9876','asdf@smu.ac.kr','seoul',1);
insert into users
values(19991004,1,'2','lim','jina','se','018-9018-8311','qwer@smu.ac.kr','seoul',1);
insert into users
values(19991005,1,'2','ha','jiyeon','se','017-9018-8311','zxcv@smu.ac.kr','seoul',1);
insert into users
values(20010001,1,'1','kim','su','se','016-9018-8311','poiu@smu.ac.kr','seoul',1);
insert into users
values(20010002,1,'1','kang','jiwon','se','017-9018-8311','lkkjh@hotmail.com','seoul',1);
insert into users
values(20010003,1,'1','lee','yumi','se','018-6543-8765','cndh@smu.ac.kr','seoul',1);
insert into users
values(20010004,1,'1','lim','jina','se','019-9012-8312','ereri@smu.ac.kr','seoul',1);
insert into users
values(20010005,1,'1','ha','jiyeon','se','011-3847-3948','dfdff@smu.ac.kr','seoul',1);
insert into users
values(20020001,1,'1','kim','haha','economy','016-9018-8311','poiu@smu.ac.kr','seoul',1);
insert into users
values(20020002,1,'1','kang','hoho','media','017-9018-8311','lkkjh@hotmail.com','seoul',1);
insert into users
values(20020003,1,'1','lee','huhu','economy','018-6543-8765','cndh@smu.ac.kr','seoul',1);
insert into users
values(20020004,1,'1','lim','heehee','computer','019-9012-8312','ereri@smu.ac.kr','seoul',1);
insert into users
values(20020005,1,'1','ha','kaka','computer','011-3847-3948','dfdff@smu.ac.kr','seoul',1);
insert into users
values(20030001,1,'2','kim','ronaldo','economy','016-9018-8311','poiu@smu.ac.kr','suwon',1);
insert into users
values(20030002,1,'2','kang','roony','media','017-9018-8311','lkkjh@hotmail.com','seoul',2);
insert into users
values(20030003,1,'2','lee','jisung','economy','018-6543-8765','cndh@smu.ac.kr','suwon',3);
insert into users
values(20030004,1,'1','lim','yakubu','computer','019-9012-8312','ereri@smu.ac.kr','seoul',1);
insert into users
values(20030005,1,'1','ha','yamaha','computer','011-3847-3948','dfdff@smu.ac.kr','suwon',2);
```

4.9 대출 정보

```
insert into book_lend_info
values('20',19901111,'2007-06-01','2007-06-14');
insert into book_lend_info
values('19',19901111,'2007-06-01','2007-06-14');
insert into book_lend_info
values('15',19901111,'2007-06-01','2007-06-14');
insert into book_lend_info
```

```
values('18',19971114,'2007-06-01','2007-06-22');
insert into book_lend_info
values('17',19971114,'2007-06-01','2007-06-22');
insert into book_lend_info
values('16',19971114,'2007-06-01','2007-06-22');
insert into book_lend_info
values('10',20010001,'2007-06-01','2007-06-14');
insert into book_lend_info
values('11',20010001,'2007-06-01','2007-06-14');
insert into book_lend_info
values('12',20010001,'2007-06-01','2007-06-14');
```

4.10 블랙리스트

```
INSERT INTO BLACKLIST
VALUES
('1', '20020003', '책 분실');
INSERT INTO BLACKLIST
VALUES
('2', '20030002', '장기 미반납');
INSERT INTO BLACKLIST
VALUES
('3', '20030004', '장기 미반납');
INSERT INTO BLACKLIST
VALUES
('4', '20030005', '장기 미반납');
```

5.0 Grant SQL

```
GRANT SELECT ON USERS TO ADMIN;
GRANT SELECT ON USER_TYPE TO ADMIN;
GRANT SELECT ON LEND_AUTHORITY TO ADMIN;
GRANT SELECT ON BLACKLIST TO ADMIN;
GRANT SELECT ON BOOK_LEND_INFO TO ADMIN;
GRANT SELECT ON LOCATION TO ADMIN;
GRANT SELECT ON PUBLISHER TO ADMIN;
GRANT SELECT ON AUTHOR TO ADMIN;
GRANT SELECT ON WROTE TO ADMIN;
GRANT SELECT ON BOOK TO ADMIN;
```

```
GRANT INSERT ON USERS TO ADMIN;
GRANT INSERT ON USER_TYPE TO ADMIN;
GRANT INSERT ON LEND_AUTHORITY TO ADMIN;
GRANT INSERT ON BLACKLIST TO ADMIN;
GRANT INSERT ON BOOK_LEND_INFO TO ADMIN;
GRANT INSERT ON LOCATION TO ADMIN;
GRANT INSERT ON PUBLISHER TO ADMIN;
```

GRANT INSERT ON AUTHOR TO ADMIN;
GRANT INSERT ON WROTE TO ADMIN;
GRANT INSERT ON BOOK TO ADMIN;

GRANT UPDATE ON USERS TO ADMIN;
GRANT UPDATE ON USER_TYPE TO ADMIN;
GRANT UPDATE ON LEND_AUTHORITY TO ADMIN;
GRANT UPDATE ON BLACKLIST TO ADMIN;
GRANT UPDATE ON BOOK_LEND_INFO TO ADMIN;
GRANT UPDATE ON LOCATION TO ADMIN;
GRANT UPDATE ON PUBLISHER TO ADMIN;
GRANT UPDATE ON AUTHOR TO ADMIN;
GRANT UPDATE ON WROTE TO ADMIN;
GRANT UPDATE ON BOOK TO ADMIN;

GRANT DELETE ON USERS TO ADMIN;
GRANT DELETE ON USER_TYPE TO ADMIN;
GRANT DELETE ON LEND_AUTHORITY TO ADMIN;
GRANT DELETE ON BLACKLIST TO ADMIN;
GRANT DELETE ON BOOK_LEND_INFO TO ADMIN;
GRANT DELETE ON LOCATION TO ADMIN;
GRANT DELETE ON PUBLISHER TO ADMIN;
GRANT DELETE ON AUTHOR TO ADMIN;
GRANT DELETE ON WROTE TO ADMIN;
GRANT DELETE ON BOOK TO ADMIN;