* create user Fakhrul

identified by r27

* grant create session to Fakhrul
* create table student(

student\_id number(10) primary key,

student\_name varchar2(20) not null,

age number(3),

dob Date,

course varchar2(10)

);

* grant resource, connect to Fakhrul;
* desc student;
* create table time\_example

(order\_date TIMESTAMP WITH LOCAL TIME ZONE);

insert into time\_example values('15-JAN-04 09:34:28 AM');

* create table time\_example

(order\_date TIMESTAMP with local time zone);

insert into time\_example values(sysdate);

* create table time\_example3

(loan\_duration interval year (3) to month);

insert into time\_example3 (loan\_duration)

values (interval '120' month (3));

select to\_char(sysdate+loan\_duration,'dd-mon-yyyy')

from time\_example3;

* create table time\_example4

(day\_duration interval day (3) to second);

insert into time\_example4 (day\_duration)

values (interval '180' day(3));

select sysdate+day\_duration "Half Year"

from tiime\_example4;

* SELECT\*

from user\_constraints;

* create table Exam(

Exam\_no number(10),

month varchar2(4) not null,

student\_id number(10),

exam\_type varchar2(4) check(exam\_type in('mcq','des','evd')),

mark number(3),

constraint exam\_no\_pk primary key(exam\_no),

constraint exam\_student\_id\_fk foreign key(student\_id) references student(student\_id)

);

* select\*

from user\_constraints;

* create view empvu804

as select employee\_id, last\_name, salary

from employees

where department\_id=80;

* select\*

from empvu804;

* create view salvu504

as select employee\_id id\_number, last\_name name, salary\*12 ann\_salary

from employees

where department\_id=50;

* create or replace view dept\_sum\_vu (name, minsal, maxsal, avgsal)

as select d.department\_name, min(e.salary), max(e.salary), avg(e.salary)

from employees e join departments d

on (e.department\_id=d.department\_id)

group by d.department\_name;

* select\*

from dept\_sum\_vu;

* create or replace view empvu20

as select\*

from employees

where department\_id=20

with check option constraint empvu20\_ck;

* select\*

from empvu20;

* create table MEMBER

(member\_id number(10) primary key,

last\_name varchar2(25),

first\_name varchar2(25),

address varchar2(100),

city varchar2(30),

phone varchar2(15),

join\_date date default sysdate not null);

* create table TITLE (

title\_id number(10),

title varchar2(60) not null,

description varchar2(400) not null,

rating varchar2(4),

catagory varchar2(20),

release\_date date,

constraint TITLE\_title\_id\_pk primary key(title\_id),

constraint rating\_ck check(rating in('G', 'PG', 'R', 'NC17', 'NR')),

constraint catagory\_ck check(catagory in('DRAMA', 'COMEDY', 'ACTION','CHILD', 'SCIFI', 'DOCUMENTARY'))

);

* select\*

from user\_constraints;

* create table TITLE\_COPY(

copy\_id number(10) not null,

title\_id number(10) not null,

status varchar2(15) not null,

constraint TITLE\_COPY\_copy\_id\_title\_id\_pk primary key(copy\_id,title\_id),

constraint TITLE\_COPY\_title\_id\_fk foreign key(title\_id) references title(title\_id),

constraint TITLE\_COPY\_status\_CK check (status in('AVAILABLE', 'DESTROYED', 'RENTED', 'RESERVED'))

);

* create table RENTAL(

book\_date date default sysdate,

member\_id number(10),

constraint RENTAL\_member\_id\_fk foreign key(member\_id) references member(member\_id),

copy\_id number(10),

act\_ret\_date date,

exp\_ret\_date date default sysdate+2,

title\_id number(10),

constraint RENTAL\_book\_date\_copy\_title\_pk primary key(book\_date, member\_id, copy\_id, title\_id),

constraint RENTAL\_copy\_id\_title\_id\_fk foreign key(copy\_id,title\_id) references TITLE\_COPY(copy\_id,title\_id)

);

* create table RESERVATION(

res\_date date,

member\_id number(10),

constraint RESERVATION\_member\_fk foreign key(member\_id) references member(member\_id),

title\_id number(10),

constraints RESERVATION\_title\_fk foreign key(title\_id) references title(title\_id),

constraints RESERVATION\_res\_mem\_title\_pk primary key(res\_date, member\_id, title\_id)

);

* create sequence member\_id\_seq

start with 101

nocache

increment by 1;

* select\*

from user\_sequences;

* create sequence title\_id\_seq

start with 92

nocache

increment by 1;

* insert into MEMBER values(member\_id\_seq.nextval, 'Velasquez', 'Carmen', '283 king steet', 'seattle', '206-899-6666', '08-MAR-1990');

insert into MEMBER values(member\_id\_seq.nextval, 'Nago', 'LaDoris', '5 Modrany', 'Bratislava', '586-355-8882', '08-MAR-1990');

insert into MEMBER values(member\_id\_seq.nextval, 'Nagayama', 'Midori', '68 via centrale', 'Sao paolo', '254-852-5764', '17-JUN-1991');

insert into MEMBER values(member\_id\_seq.nextval, 'Quick-to-see', 'Mark', '6921 king way', 'lagos', '63-559-7777', '07-APR-1990');

insert into MEMBER values(member\_id\_seq.nextval, 'Ropeburn', 'Audry', '86 chu street', 'hong kong', '41-559-87', '18-JAN-1991');

insert into MEMBER values(member\_id\_seq.nextval, 'Urgunrt', 'Molly', '3035 Laurier', 'Qubec', '418-542-9988', '18-APR-1991');

* insert into title(title\_id, title, description, rating, catagory, release\_date)

values(title\_id\_seq.nextval, 'while and christmas too', 'All of while', 'G', 'CHILD', to\_date('05-OCT-1995','DD-MON-YYYY'));

* insert into title(title\_id, title, description, rating, catagory, release\_date)

values(title\_id\_seq.nextval, 'The Glob', 'A metero crashes near a small', 'NR', 'COMEDY', to\_date('12-AUG-1995','DD-MON-YYYY'));

insert into title(title\_id, title, description, rating, catagory, release\_date)

values(title\_id\_seq.nextval, 'Miracles on lee', 'A six-year-old', 'PG', 'DRAMA', to\_date('12-SEP-1995','DD-MON-YYYY'));

insert into title(title\_id, title, description, rating, catagory, release\_date)

values(title\_id\_seq.nextval, 'Soda Gang', 'After discovering', 'NR', 'ACTION', to\_date('01-JUN-1995','DD-MON-YYYY'));

* insert into title\_copy(copy\_id, title\_id, status)

values(1, 93, 'AVAILABLE');

insert into title\_copy(copy\_id, title\_id, status)

values(1, 94, 'AVAILABLE');

insert into title\_copy(copy\_id, title\_id, status)

values(2, 94, 'AVAILABLE');

insert into title\_copy(copy\_id, title\_id, status)

values(1, 95, 'AVAILABLE');

insert into title\_copy(copy\_id, title\_id, status)

values(1, 96, 'AVAILABLE');

insert into title\_copy(copy\_id, title\_id, status)

values(2, 96, 'AVAILABLE');

insert into title\_copy(copy\_id, title\_id, status)

values(3, 96, 'AVAILABLE');

insert into title\_copy(copy\_id, title\_id, status)

values(1, 97, 'AVAILABLE');

insert into title\_copy(copy\_id, title\_id, status)

values(1, 98, 'AVAILABLE');

* insert into rental(title\_id, copy\_id, member\_id, book\_date, exp\_ret\_date, act\_ret\_date)

values(93, 1, 101, sysdate-3, sysdate-1, sysdate-2);

insert into rental(title\_id, copy\_id, member\_id, book\_date, exp\_ret\_date, act\_ret\_date)

values(94, 2, 101, sysdate-1, sysdate-1, NULL);

insert into rental(title\_id, copy\_id, member\_id, book\_date, exp\_ret\_date, act\_ret\_date)

values(96, 3, 102, sysdate-2, sysdate, NULL);

insert into rental(title\_id, copy\_id, member\_id, book\_date, exp\_ret\_date, act\_ret\_date)

values(97, 1, 102, sysdate-4, sysdate-2, sysdate-2);