**AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH**

Project Report Cover Page

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| **Assignment Title:** | Advance Database Final term Project Report | | |  |
| **Assignment No:** |  |  | **Date of Submission:** | 24 August 2022 |
| **Course Title:** | ADVANCE DATABASE MANAGEMENT SYSTEMS | | |  |
| **Course Code:** | CSC 4181 |  | **Section:** | A and C |
| **Semester:** | Summer | 2021-22 | **Course Teacher:** | REZWAN AHMED |

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**Group Name/No.: Lazz Pharma Management System**

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**Lazz Pharma Management System**

# SQL Script

**For creating all the Project Tables:**

create table admin(

email varchar2(25),

password varchar2(10))

insert into admin(email,password) values ('admin1@gmail.com','12345')

create table patient

(

National\_id number(15) constraint patient\_National\_id\_pk primary key,

Name varchar2(50),

Address varchar2(50),

Gender varchar2(6)

)

insert into patient(National\_id,Name,Address,Gender) values (111222301,'ABC','DHAKA','Male')

insert into patient(National\_id,Name,Address,Gender) values (111222302,'DEF','UTTARA','Male')

insert into patient(National\_id,Name,Address,Gender) values (111222303,'GHI','MIRPUR','Male')

insert into patient(National\_id,Name,Address,Gender) values (111222304,'JKL','DHANMONDI','Male')

insert into patient(National\_id,Name,Address,Gender) values (111222305,'MNO','SRIPUR','Male')

insert into patient(National\_id,Name,Address,Gender) values (111222306,'PQR','KURATOLI','Female')

insert into patient(National\_id,Name,Address,Gender) values (111222307,'STU','BADDA','Female')

insert into patient(National\_id,Name,Address,Gender) values (111222308,'VWX','NIKUNJO','Female')

insert into patient(National\_id,Name,Address,Gender) values (111222309,'XYZ','KHILKHET','Female')

insert into patient(National\_id,Name,Address,Gender) values (111222310,'CBA','NARAYANGONJ','Female')

create table doctor

(

Name varchar2(50),

Speciality varchar2(20),

License number(15) constraint doctor\_License\_pk primary key

)

insert into doctor(Name,Speciality,License) values ('Dr. Wahab', 'Neuro',11111)

insert into doctor(Name,Speciality,License) values ('Dr. NAZMUL', 'GASTROENTEROLOGISTS',22222)

insert into doctor(Name,Speciality,License) values ('Dr. RAHIM', 'DERMATOLOGISTS',33333)

insert into doctor(Name,Speciality,License) values ('Dr. KARIM', 'CARDIOLOGISTS',44444)

insert into doctor(Name,Speciality,License) values ('Dr. EHRAM', 'ENDOCRINOLOGISTS',55555)

insert into doctor(Name,Speciality,License) values ('Dr. IQRAM', 'INFLENZA',77777)

insert into doctor(Name,Speciality,License) values ('Dr. SHAFIQ', 'PNEMONIA',99999)

insert into doctor(Name,Speciality,License) values ('Dr. AKBOR', 'TUBERCULOSIS',100000)

insert into doctor(Name,Speciality,License) values ('Dr. EMON', 'CHOLESTEROL',66666)

insert into doctor(Name,Speciality,License) values ('Dr. NILOY', 'DIABETES',88888)

insert into doctor(Name,Speciality,License) values ('Dr. Wahab', 'Neuro',1)

create table AID

(

A\_ID number(10) constraint AID\_A\_ID\_pk primary key,

National\_id number(15) constraint AID\_National\_id\_fk references patient(National\_id),

License number(15) constraint AID\_License\_fk references doctor(License)

)

insert into AID(A\_ID,National\_id,License) values (101,111222301,11111)

insert into AID(A\_ID,National\_id,License) values (102,111222302,22222)

insert into AID(A\_ID,National\_id,License) values (103,111222303,33333)

insert into AID(A\_ID,National\_id,License) values (104,111222304,44444)

insert into AID(A\_ID,National\_id,License) values (105,111222305,55555)

insert into AID(A\_ID,National\_id,License) values (106,111222306,66666)

insert into AID(A\_ID,National\_id,License) values (107,111222307,77777)

insert into AID(A\_ID,National\_id,License) values (108,111222308,88888)

insert into AID(A\_ID,National\_id,License) values (109,111222309,99999)

insert into AID(A\_ID,National\_id,License) values (110,111222310,100000)

create table Pharmacy(

pharmacy\_id number(15) constraint pharmacy\_p\_id\_pk primary key,

pharmacy\_name varchar2(50) ,

address varchar2(50),

fax number(15)

)

insert into pharmacy(pharmacy\_id, pharmacy\_name,address, fax)

values(123456111, 'Lazz pharma', 'Dhaka', 01234567891)

insert into pharmacy(pharmacy\_id, pharmacy\_name,address, fax)

values(123456112, 'Lazz pharma', 'Uttora', 01234567822)

insert into pharmacy(pharmacy\_id, pharmacy\_name,address, fax)

values(123456113, 'Lazz pharma', 'Mirpur', 01234567823)

insert into pharmacy(pharmacy\_id, pharmacy\_name,address, fax)

values(123456114, 'Lazz pharma', 'Dhanmondi', 01234567824)

insert into pharmacy(pharmacy\_id, pharmacy\_name,address, fax)

values(123456115, 'Lazz pharma', 'Sripur', 01234567825)

insert into pharmacy(pharmacy\_id, pharmacy\_name,address, fax)

values(123456116, 'Lazz pharma', 'Kuratoli', 01234567826)

insert into pharmacy(pharmacy\_id, pharmacy\_name,address, fax)

values(123456117, 'Lazz pharma', 'Badda', 01234567827)

insert into pharmacy(pharmacy\_id, pharmacy\_name,address, fax)

values(123456118, 'Lazz pharma', 'Nikunjo', 01234567828)

insert into pharmacy(pharmacy\_id, pharmacy\_name,address, fax)

values(123456119, 'Lazz pharma', 'Khilkhet', 01234567829)

insert into pharmacy(pharmacy\_id, pharmacy\_name,address, fax)

values(123456122, 'Lazz pharma', 'Narayangonj', 01234567841)

create table Pharmacy\_employee(

employee\_id number(15) constraint employees\_e\_id\_pk primary key,

name varchar2(50),

shifting\_time varchar2(20),

contract\_date varchar2(15),

pharmacy\_id number(15) constraint employees\_p\_id\_fk references pharmacy(pharmacy\_id)

)

insert into pharmacy\_employee(employee\_id, name, Shifting\_time,Contract\_date, Pharmacy\_id)

values(121212121, 'Abul' , '9:00AM to 12:00PM', '1/10/2004', 123456111)

insert into pharmacy\_employee(employee\_id, name, Shifting\_time,Contract\_date, Pharmacy\_id)

values(121212122, 'Rakib' , '9:00AM to 12:00PM', '5/6/2006', 123456111)

insert into pharmacy\_employee(employee\_id, name, Shifting\_time,Contract\_date, Pharmacy\_id)

values(121212123, 'Sakib' , '2:00PM to 5:00PM', '8/10/2012', 123456111)

insert into pharmacy\_employee(employee\_id, name, Shifting\_time,Contract\_date, Pharmacy\_id)

values(121212124, 'Kamal' , '2:00PM to 5:00PM', '5/1/2012', 123456111)

insert into pharmacy\_employee(employee\_id, name, Shifting\_time,Contract\_date, Pharmacy\_id)

values(121212125, 'Mushfiq' , '8:00AM to 12:00PM', '8/4/2013', 123456112)

insert into pharmacy\_employee(employee\_id, name, Shifting\_time,Contract\_date, Pharmacy\_id)

values(121212126, 'Himel' , '8:00AM to 12:00PM', '6/5/2012', 123456112)

insert into pharmacy\_employee(employee\_id, name, Shifting\_time,Contract\_date, Pharmacy\_id)

values(121212127, 'Rifat' , '1:00PM to 5:00PM', '17/10/2014', 123456112)

insert into pharmacy\_employee(employee\_id, name, Shifting\_time,Contract\_date, Pharmacy\_id)

values(121212128, 'Salma' , '1:00PM to 5:00PM', '25/6/2011', 123456112)

insert into pharmacy\_employee(employee\_id, name, Shifting\_time,Contract\_date, Pharmacy\_id)

values(121212129, 'Rima' , '1:00PM to 5:00PM', '11/7/2014', 123456113)

insert into pharmacy\_employee(employee\_id, name, Shifting\_time,Contract\_date, Pharmacy\_id)

values(121212130, 'Akash' , '10:00AM to 3:00PM', '3/3/2014', 123456113)

create table BID(

B\_id number(10) constraint BID\_B\_ID\_pk primary key,

License number(15) constraint BID\_licence\_fk references doctor(license),

pharmacy\_id number(15) constraint BID\_National\_id\_fk references pharmacy(pharmacy\_id)

)

insert into BID(b\_id, license, Pharmacy\_id)

values(010101221, 11111, 123456111 )

insert into BID(b\_id, license, Pharmacy\_id)

values(010101222, 22222, 123456112 )

insert into BID(b\_id, license, Pharmacy\_id)

values(010101223, 33333, 123456113 )

insert into BID(b\_id, license, Pharmacy\_id)

values(010101224, 44444, 123456114 )

insert into BID(b\_id, license, Pharmacy\_id)

values(010101225, 55555, 123456115 )

insert into BID(b\_id, license, Pharmacy\_id)

values(010101226, 66666, 123456116 )

insert into BID(b\_id, license, Pharmacy\_id)

values(010101227, 77777, 123456117 )

insert into BID(b\_id, license, Pharmacy\_id)

values(010101228, 88888, 123456118 )

insert into BID(b\_id, license, Pharmacy\_id)

values(010101229, 99999, 123456119 )

insert into BID(b\_id, license, Pharmacy\_id)

values(010101230, 100000, 123456122 )

create table transaction

(

company\_id number(10) constraint com\_id\_pk primary key,

address varchar2(20),  
 companyname varchar2(10)

)

insert into transaction(company\_id,address,companyname) values(121,'wfwf','add')

insert into transaction(company\_id,address,companyname) values(122,'fewf','efasf')

insert into transaction(company\_id,address,companyname) values(123,'efw','fewe')

insert into transaction(company\_id,address,companyname) values(124,'few','efdwe')

insert into transaction(company\_id,address,companyname) values(125,'fwdf','efwe')

insert into transaction(company\_id,address,companyname) values(126,'fwef','fewf')

insert into transaction(company\_id,address,companyname) values(127,'fwerfw','fwef')

insert into transaction(company\_id,address,companyname) values(128,'fwefw','fwfwf')

insert into transaction(company\_id,address,companyname) values(129,'hgthr','ergeg')

insert into transaction(company\_id,address,companyname) values(1210,'qwewe','weqer')

create table drug(

drugname varchar2(20) constraint drug\_drugname\_pk primary key ,

company\_id number(20) constraint drug\_company\_id\_fk references transaction(company\_id),

drugtype varchar2(30)

);

insert into drug(drugname,company\_id,drugtype) values('abc',121,'xyz')

insert into drug(drugname,company\_id,drugtype) values('bcd',122,'xyz')

insert into drug(drugname,company\_id,drugtype) values('cde',123,'yaz')

insert into drug(drugname,company\_id,drugtype) values('def',124,'dc')

insert into drug(drugname,company\_id,drugtype) values('efg',125,'wewe')

insert into drug(drugname,company\_id,drugtype) values('fgh',126,'wedwfd')

insert into drug(drugname,company\_id,drugtype) values('ghi',127,'wedfwe')

insert into drug(drugname,company\_id,drugtype) values('hij',128,'fwefd')

insert into drug(drugname,company\_id,drugtype) values('ijk',129,'fwef')

insert into drug(drugname,company\_id,drugtype) values('jkl',1210,'wefw')

create table Buy

(

ndid number(10) constraint ndid\_pk primary key,

Drugname varchar2(20) constraint drug\_fk references drug(Drugname),

National\_id number(15) constraint nid\_fk references patient(National\_id)

)

insert into Buy(ndid,Drugname,National\_id) values(1,'abc',111222301)

insert into Buy(ndid,Drugname,National\_id) values(2,'bcd',111222302)

insert into Buy(ndid,Drugname,National\_id) values(3,'cde',111222303)

insert into Buy(ndid,Drugname,National\_id) values(4,'def',111222304)

insert into Buy(ndid,Drugname,National\_id) values(5,'efg',111222305)

insert into Buy(ndid,Drugname,National\_id) values(6,'fgh',111222306)

insert into Buy(ndid,Drugname,National\_id) values(7,'ghi',111222307)

insert into Buy(ndid,Drugname,National\_id) values(8,'hij',111222308)

insert into Buy(ndid,Drugname,National\_id) values(9,'ijk',111222309)

insert into Buy(ndid,Drugname,National\_id) values(10,'jkl',111222310)

create table sell(  
Drugname varchar2(20) constraint dru\_fk references drug(Drugname),

pharmacy\_id number(15) constraint p\_id\_fk references Pharmacy(pharmacy\_id),

dpid number(10) constraint dpid\_pk primary key)

insert into sell(drugname,pharmacy\_id,dpid) values('abc',123456111,20)

insert into sell(drugname,pharmacy\_id,dpid) values('bcd',123456112,21)

insert into sell(drugname,pharmacy\_id,dpid) values('cde',123456113,22)

insert into sell(drugname,pharmacy\_id,dpid) values('def',123456114,23)

insert into sell(drugname,pharmacy\_id,dpid) values('efg',123456115,24)

insert into sell(drugname,pharmacy\_id,dpid) values('fgh',123456116,25)

insert into sell(drugname,pharmacy\_id,dpid) values('ghi',123456117,26)

insert into sell(drugname,pharmacy\_id,dpid) values('hij',123456118,27)

insert into sell(drugname,pharmacy\_id,dpid) values('ijk',123456119,28)

insert into sell(drugname,pharmacy\_id,dpid) values('jkl',123456122,29)

create table cdid(

company\_id number(20) constraint cdid\_company\_id\_fk references transaction(company\_id),

drugname varchar2(20) constraint cdid\_drugname\_fk references drug(drugname),

cdid number(30) constraint cdid\_cdid\_pk primary key

)

insert into cdid(company\_id,drugname,cdid) values (121,'abc',001)

insert into cdid(company\_id,drugname,cdid) values (122,'bcd',002)

insert into cdid(company\_id,drugname,cdid) values (123,'cde',003)

insert into cdid(company\_id,drugname,cdid) values (124,'def',004)

insert into cdid(company\_id,drugname,cdid) values (125,'efg',005)

insert into cdid(company\_id,drugname,cdid) values (126,'fgh',006)

insert into cdid(company\_id,drugname,cdid) values (127,'ghi',007)

insert into cdid(company\_id,drugname,cdid) values (128,'hij',008)

insert into cdid(company\_id,drugname,cdid) values (129,'ijk',009)

insert into cdid(company\_id,drugname,cdid) values (1210,'jkl',010)

**For SQL Queries:**

Ques: Find out the license of Dr. NAZMUL.

Ans: select license from doctor where Name='Dr. NAZMUL'

Ques: Find all the greatest license holder than Wahab.

Ans: select License from doctor where License >any (select license from doctor where Name='Dr. Wahab')

Ques: Find out the pharmacy\_id wise number of employee we have.   
Ans: select count(name) from pharmacy\_employee group by pharmacy\_id

Ques: Find out the pharmacy\_id wise maximum and minimum contract date.

Ans: select min(contract\_date), max(contract\_date) from pharmacy\_employee group by pharmacy\_id

Ques: Find out the pharmacy name and address whose pharmacy id is 123456111.

Ans: select pharmacy\_name, address from pharmacy where address=(select address from pharmacy where pharmacy\_id=123456111)

Ques: Find the name and drugname whose national id is 111222301.   
Ans: select p.NAME, b.DRUGNAME from Patient p, Buy b where p.NATIONAL\_ID=b.NATIONAL\_ID and p.NATIONAL\_ID='111222301'

Ques: Show patient name, address, gender and drugname

Ans: select p.Name,p.Address,p.Gender,b.Drugname from patient p, Buy b where p.National\_id=b.National\_id

Find the drugname, drugtype where drugname is abc.

Ans: select d.DRUGTYPE, s.DRUGNAME from Drug d, Sell s where d.DRUGNAME=s.DRUGNAME and s.DRUGNAME='abc'

Ques: Display all the male gender’s name and drugname.

Ans: select p.NAME, b.DRUGNAME from Patient p, Buy b where p.NATIONAL\_ID=b.NATIONAL\_ID and p.GENDER='Male'

Ques: Display all the doctor name, their speciality and which phramacy they work for   
Ans: select Name, Speciality, pharmacy\_name from doctor, BID, pharmacy where BID.License=doctor.License and pharmacy.pharmacy\_id=BID.pharmacy\_id

**For PLSQL Procedure & Function:**1) create procedure proc\_pharmacy(pid in pharmacy.pharmacy\_id%type,pnm out pharmacy.pharmacy\_name%type,padd out pharmacy.address%type,pfax out pharmacy.fax%type)

is

begin

select pharmacy\_name,address,fax into pnm,padd,pfax from pharmacy where pharmacy\_id=pid;

end;

declare

p\_id pharmacy.pharmacy\_id%type:=:pharmacy\_id;

p\_nm pharmacy.pharmacy\_name%type;

p\_add pharmacy.address%type;

p\_fax pharmacy.fax%type;

begin

proc\_pharmacy(p\_id,p\_nm,p\_add,p\_fax);

dbms\_output.put\_line('pharmacy name:'||p\_nm);

dbms\_output.put\_line('address:'||p\_add);

dbms\_output.put\_line('fax:'||p\_fax);

end;  
  
2) create procedure proc\_pharmacy\_employee(maxcd out pharmacy\_employee.contract\_date%type)

is

begin

select max(contract\_date) into mcd from pharmacy\_employee;

end;

declare

max\_cd pharmacy\_employee.contract\_date%type;

begin

proc\_pharmacy\_employee(max\_cd);

dbms\_output.put\_line('Most senior employee contract date:'|| max\_cd);

end;

3) create procedure proc\_doctor(dlic in doctor.license%type,dnm out doctor.name%type)

is

begin

select name into dnm from doctor where license=dlic;

end;

4) create or replace function func\_pat(nid patient.national\_id%type)

return patient.name%type

is

pname patient.name%type;

begin

select name into pname from patient where national\_id=nid;

return pname;

end;

5) create procedure proc\_phar\_emp(eid in pharmacy\_employee.employee\_id%type,enm out pharmacy\_employee.name%type)

is

begin

select name into enm from pharmacy\_employee where employee\_id=eid;

end;

declare

e\_id pharmacy\_employee.employee\_id%type:=:Employee\_id;

e\_nm pharmacy\_employee.name%type;

begin

proc\_phar\_emp(e\_id,e\_nm);

dbms\_output.put\_line('Employee name:'||e\_nm);

end;

**For View:**

1) create view doctor\_view as

select Name, Speciality

from doctor;

2) create view patient\_view as

select Name, Address, Gender

from patient;

3) create view drug\_name as

select name, drugname

from patient, buy

where patient.NATIONAL\_ID=buy.NATIONAL\_ID

4) create view pharmacy\_view as

select Name, Speciality, Pharmacy\_name, B\_id

from doctor, bid, pharmacy

where BID.License=doctor.License and pharmacy.pharmacy\_id=BID.pharmacy\_id

**For Trigger:**

1) create trigger patient\_insert\_trigger

before insert or update on patient

begin

if to\_char(sysdate,'DY') in ('FRI','SAT')

or to\_char(sysdate,'HH24') not between '08' and '17' then

raise\_application\_error(-20202,'Sorry mam/sir,Please come in regular working hour');

end if;

end;

2) CREATE TABLE P\_HISTORY\_log(database\_user VARCHAR2(50), operation\_name VARCHAR2(50) , operation\_date VARCHAR2(50) );

create or replace trigger Monitor\_P\_HISTORY

after insert or update or delete on patient

declare

o\_name varchar(30);

begin

if inserting then

o\_name := 'insert operation happened';

elsif updating then

o\_name := 'update operation happened';

elsif deleting then

o\_name := 'delete operation happened';

end if;

INSERT INTO P\_HISTORY\_log VALUES(user, o\_name, sysdate);

end;

**For DML:**

1) create or replace procedure insert\_patient(nid in patient.national\_id%type,nm in patient.name%type,add in patient.address%type,gen in patient.gender%type)

is

begin

insert into patient(National\_id,Name,Address,Gender) values (nid,nm,add,gen);

end;

2) create or replace procedure update\_patient(nid in patient.national\_id%type,nm in patient.name%type,add in patient.address%type,gen in patient.gender%type)

is

begin

update patient set name=nm, address=add, gender=gen where national\_id=nid;

end;

3) create or replace procedure delete\_patient(nid in patient.national\_id%type)

is

begin

delete from patient where national\_id=nid;

end;