LIST OF EXPERIMENT

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| **S.no** | **Topic** | **Date of Assignment** | **Date of Submission** |
| Lab zero | Write different syntaxes of DDL,DML, DCL, TCL with example. | Ask to concern faculty |  |
| 1 | To learn basic of DDL commands |  |
| 2 | To learn ALTER Command :Add, Modify, Drop, Rename command. |  |
| 3 | To learn basic DML : Insert, update, delete |  |
| 4 | Use of Built-in function of SQL |  |
| 5 | Use of Aggregate function (min, max, sum, count and average) |  |
| 6 | Groupby , Orderby and Having clause |  |
| 7 | JOIN and different types join operations |  |
| 8 | Sub Query based command |  |
| 9 | Co-Related queries |  |
| 10 | PL /SQL –procedure function, cursor and trigger |  |

**Lab 0: Write syntax on DDL DML DCL &TCL.**

**Soln:**

**Lab 1: To learn basic of DDL commands.**

**Aim:-** XYZ hospital is a multi-specialty hospital that includes a number of departments, rooms, doctors and other staff working in the hospital. Patients having different kinds of ailments come to the hospital and get check-up done from the concerned doctors. If required they are admitted in the hospital and discharged after treatment.

The aim of this case study is to design and develop a database for the hospital to maintain the records of various departments, rooms, and doctors in the hospital. It also maintains records of the regular patients, patients admitted in the hospital, the check-up of patients done by the doctors, the patients that have been operated, and patients discharged from the hospital.

**Description:-** In hospital, there are many departments like Orthopedic, Anesthesia, Cardiology, Diagnostics, ENT, General Surgery, Neuro Sciences, Cardiology, Physiotherapy etc. There is an OPD where patients come and gets entered in hospital, then for check up from the concerned doctor. After making entry in the card, they go to the concerned doctor’s room and the doctor checks up their ailments. According to the ailments, the doctor either prescribes medicine or admits the patient in the concerned department. The patient may choose either private or general room with AC or NON-AC according to his/her need. After the treatment is completed, the doctor discharges the patient. Before discharging from the hospital, the patient again has to complete formalities of the hospital charges or payment.

There are two types of the doctors in the hospital, namely, regular doctors and call on doctors. Regular doctors are those doctors who come to the hospital daily. Calls on doctors are those doctors who are called by the hospital if the concerned doctor is not available.

**Create all tables with the help of schema provided to you.**

**Q1:** Create following tables with the help of provided schema.

**Create table department (**

**D\_NAME varchar2(50),**

**D\_LOCATION varchar2(20),**

**FACILITIES varchar2(50))**

**Qn2 CREATE TABLE Doctor (**

**DOC\_ID varchar2(5),**

**DEPARTMENT varchar2(50))**

**Qn 3 CREATE TABLE ROOM\_DETAILS (**

**ROOM\_NO number(5),**

**R\_TYPE varchar2(10),**

**R\_STATUS varchar2(1),**

**P\_ID varchar2(5),**

**DAILY\_CHARGE number(5))**

**Qn 4 CREATE TABLE DOC\_REG (**

**DOC\_ID varchar2(50),**

**DOC\_NAME varchar2(50),**

**QUALIFICATION varchar2(20),**

**SALARY number(5),**

**ADDRESS varchar2(50),**

**CONTACT\_NO number(5),**

**DOJ date)**

**Qn 5 CREATE TABLE DOC\_ON\_CALL (**

**DOC\_ID varchar2(50),**

**DOC\_NAME varchar2(50),**

**QUALIFICATION varchar2(20),**

**FEE\_PER\_CALL number(5),**

**ADDRESS varchar2(50),**

**CONTACT\_NO number(5))**

**Qn 6 CREATE TABLE Patient (**

**P\_ID varchar2(5),**

**P\_NAME varchar2(50),**

**P\_AGE number(2),**

**P\_SEX varchar2(1),**

**P\_ADDRESS varchar2(50),**

**P\_CITY varchar2(20),**

**P\_CONTACT number(10),**

**P\_CHECKUP\_DATE date,**

**P\_DIAGNOSIS varchar2(50),**

**P\_REFDOC varchar2(5),**

**DEPARTMENT varchar2(50))**

**Qn 7 CREATE TABLE PAT\_CHECKUP (**

**P\_ID varchar2(5),**

**DOC\_ID varchar2(50),**

**P\_DIAGNOSIS varchar2(50),**

**STATUS varchar2(20),**

**TREATMENT varchar2(50))**

**Qn 8 CREATE TABLE PAT\_ADMIT (**

**P\_ID varchar2(5),**

**DOC\_ID varchar2(50),**

**P\_DIAGNOSIS varchar2(50),**

**STATUS varchar2(20),**

**TREATMENT varchar2(50))**

**Qn 9 CREATE TABLE PAT\_DISCHRG (**

**P\_ID varchar2(5),**

**TRMNT\_ADVCD varchar2(50),**

**TRMNT\_GVN varchar2(50),**

**PYMNT number(10),**

**PYMNT\_MODE varchar2(50),**

**DSCHRG\_ON date)**

**Qn 10 CREATE TABLE PAT\_REG (**

**P\_ID varchar2(5),**

**DATE\_VISIT date,**

**DIAGNOSIS varchar2(50),**

**TREATMENT varchar2(50),**

**MEDICINES\_RECMND varchar2(50))**

**Qn 11 CREATE TABLE PAT\_OPR (**

**P\_ID varchar2(5),**

**DATE\_ADMIT date,**

**DATE\_OPR date,**

**DOC\_ID varchar2(50),**

**OPTH\_NO varchar2(5),**

**OPRTN\_TYPE varchar2(5),**

**TRTMNT\_ADVCD varchar2(50))**

**Lab 2: To Learn basic of DDL commands by using constraint (** ALTER: Add, Modify, Drop, Rename command).

Qn 1 ADD CONSTRAINT ON TABLE Department (

constraint primary key(D\_NAME))

Qn 2 ADD CONSTRAINT ON TABLE Doctor (

constraint primary key(DOC\_ID),

constraint foreign key(DEPARTMENT) references Department(D\_NAME)

)

Qn 3 ADD CONSTRAINT ON TABLE ROOM\_DETAILS (

constraint pk primary key(ROOM\_NO),

constraint foreign key(P\_ID) references Patient(P\_ID)

)

Qn 4 ADD CONSTRAINT ON TABLE DOC\_REG (

constraint foreign key(DOC\_ID) references Doctor(DOC\_ID)

)

Qn 5 ADD CONSTRAINT ON TABLE DOC\_ON\_CALL (

constraint foreign key(DOC\_ID) references Doctor(DOC\_ID)

)

Qn 6 ADD CONSTRAINT ON TABLE Patient (

constraint primary key(P\_ID),

constraint foreign key(DEPARTMENT) references Department(D\_NAME),

constraint foreign key(P\_REFDOC) references Doctor(DOC\_ID)

)

Qn 7 ADD CONSTRAINT ON TABLE PAT\_CHECKUP (

constraint foreign key(P\_ID) references Patient(P\_ID),

constraint foreign key(DOC\_ID) references Doctor(DOC\_ID)

)

Qn 8 ADD CONSTRAINT ON TABLE PAT\_ADMIT (

constraint foreign key(P\_ID) references Patient(P\_ID),

constraint foreign key(DOC\_ID) references Doctor(DOC\_ID)

)

Qn 9 ADD CONSTRAINT ON TABLE PAT\_DISCHRG (

constraint foreign key(P\_ID) references Patient(P\_ID)

)

Qn 10 ADD CONSTRAINT ON TABLE PAT\_REG (

constraint foreign key(P\_ID) references Patient(P\_ID)

)

Qn 11 ADD CONSTRAINT ON TABLE PAT\_OPR (

constraint foreign key(P\_ID) references Patient(P\_ID),

constraint foreign key(DOC\_ID) references Doctor(DOC\_ID)

)

**Exercise Questions**

1. Implement constraint so that “waiting” status will be shown in the **Pat\_admit** table to the new patient if Rooms are not vacant.
2. Implement constraint in **Pat\_dischrg** table to ensure the Payment cannot be Null.
3. Implement constraint in **Room\_details** so that Status Y or N.
4. Implement constraint to make department name unique in **Department** table.
5. Implement constraint in **Doctor** table so that corresponding deptt. must exist in department table.
6. Implement Constraint in **Pat\_entry** s to make Gender as Not Null.
7. Alter table **Doc\_on\_call** so that fee on call cannot be more than 2000.
8. Implement constraint in table **Pat\_Oprtn** so that Doctor id cannot be null.
9. Implement the constraint in table doc\_on\_call to make date of joining cannot be before 2000.
10. Implement constraint so that each doctor id of **Doc\_reg** must exist in **Doctor** table.
11. Implement constraint in Doctor\_Reg to ensure date of joining cannot be null.
12. Implement the constraint and department to make department\_location unique.
13. Implement the constraint on doc\_on\_call to make qualification MBBS as default.
14. Modify the treatment way for admitted patient as “Preliminary”, if he/she is referred for Operation.
15. Modify Patient Details to make Contact Number and Age as Not Null.

**Lab 3 : To Learn basic of DML command (**Insert, update, delete**)**

**Q1 Perform the following insert commands to fill the records of respective schemas.**

**Q2 Update one records from the following Department table.**

Update Pulmonary department as Medicine.

**Q3 Delete records from the following Department table.**

Delete the record which location is at floor 11.

INSERT ALL

into Department values ('Anaesthesia','Floor 1','Critical Care & Pain Management')

into Department values ('Cardiac','Floor 2','Surgery')

into Department values ('Diagnostics','Floor 3','Diagnosis')

into Department values ('ENT','Floor 4','Medicine')

into Department values ('General Surgery','Floor 5','Surgery')

into Department values ('Neuro Sciences','Floor 6','Diagnosis with Surgery')

into Department values ('Physiotherapy','Floor 7','Critical care & Pain Management')

into Department values ('Psychiatry','Floor 8','Diagnosis')

into Department values ('Orthopaedic','Floor 9','Critical Care & Pain Management')

into Department values ('Pulmonary','Floor 10','Reserved')

into Department values ('General','Floor 11','Reserved')

SELECT \* from DUAL

INSERT ALL

into Doctor values ('DR01','Anaesthesia')

into Doctor values ('DR02','Anaesthesia')

into Doctor values ('DC01','Anaesthesia')

into Doctor values ('DC02','Anaesthesia')

into Doctor values ('DR03','Cardiac')

into Doctor values ('DR04','Cardiac')

into Doctor values ('DC03','Cardiac')

into Doctor values ('DC04','Cardiac')

into Doctor values ('DR05','Diagnostics')

into Doctor values ('DR06','Diagnostics')

into Doctor values ('DC05','Diagnostics')

into Doctor values ('DC06','Diagnostics')

into Doctor values ('DR07','ENT')

into Doctor values ('DR08','ENT')

into Doctor values ('DC07','ENT')

into Doctor values ('DC08','ENT')

into Doctor values ('DR09','General Surgery')

into Doctor values ('DR10','General Surgery')

into Doctor values ('DC09','General Surgery')

into Doctor values ('DC10','General Surgery')

into Doctor values ('DR11','Neuro Sciences')

into Doctor values ('DR12','Neuro Sciences')

into Doctor values ('DC11','Neuro Sciences')

into Doctor values ('DC12','Neuro Sciences')

into Doctor values ('DR13','Physiotherapy')

into Doctor values ('DR14','Physiotherapy')

into Doctor values ('DC13','Physiotherapy')

into Doctor values ('DC14','Physiotherapy')

into Doctor values ('DR15','Psychiatry')

into Doctor values ('DR16','Psychiatry')

into Doctor values ('DC15','Psychiatry')

into Doctor values ('DC16','Psychiatry')

into Doctor values ('DR17','Orthopaedic')

into Doctor values ('DR18','Orthopaedic')

into Doctor values ('DC17','Orthopaedic')

into Doctor values ('DC18','Orthopaedic')

into Doctor values ('DR19','Pulmonary')

into Doctor values ('DR20','Pulmonary')

into Doctor values ('DC19','Pulmonary')

into Doctor values ('DC20','Pulmonary')

SELECT \* from DUAL

INSERT ALL

into Patient values ('PT001','AAA',35,'M','Civil Lines','Kanpur',9080706051,'01-JUN-2016','Cardiac Problem','DR03','Cardiac')

into Patient values ('PT002','AAB',40,'F','Kalyanpur','Kanpur',9080706052,'02-JUN-2016','Physio Problem','DR13','Physiotherapy')

into Patient values ('PT003','AAC',45,'M','Parade','Kanpur',9080706053,'01-JUN-2016','ENT Problem','DC13','ENT')

into Patient values ('PT004','AAD',50,'F','Rawatpur','Kanpur',9080706054,'02-JUN-2016','Diagnostics Problem','DR05','Diagnostics')

into Patient values ('PT005','AAE',55,'M','Harjinder Nagar','Kanpur',9080706055,'03-JUN-2016','Neuro Problem','DR11','Neuro Sciences')

into Patient values ('PT006','BAA',35,'M','Civil Lines','Lucknow',9080706061,'01-JUN-2016','Ortho Problem','DC17','Orthopaedic')

into Patient values ('PT007','BAB',40,'F','Charbagh','Lucknow',9080706062,'02-JUN-2016','Surgery','DC09','General Surgery')

into Patient values ('PT008','BAC',45,'M','Alambagh','Lucknow',9080706063,'01-JUN-2016','ENT Problem','DC13','ENT')

into Patient values ('PT009','BAD',50,'F','Gomti Nagar','Lucknow',9080706064,'02-JUN-2016','Surgery','DR09','General Surgery')

into Patient values ('PT010','BAE',55,'M','Hazrat Ganj','Lucknow',9080706065,'03-JUN-2016','Neuro Problem','DR11','Neuro Sciences')

into Patient values ('PT011','CAA',35,'M','Civil Lines','New Delhi',9080706071,'01-JUN-2016','Ortho Problem','DC17','Orthopaedic')

into Patient values ('PT012','CAB',40,'F','Charbagh','New Delhi',9080706072,'02-JUN-2016','Surgery','DC09','General Surgery')

into Patient values ('PT013','CAC',45,'M','Alambagh','New Delhi',9080706073,'01-JUN-2016','ENT Problem','DC13','ENT')

into Patient values ('PT014','DAD',50,'F','Gomti Nagar','New Delhi',9080706074,'02-JUN-2016','Surgery','DR09','General Surgery')

into Patient values ('PT015','DAE',55,'M','Hazrat Ganj','New Delhi',9080706075,'03-JUN-2016','Neuro Problem','DR11','Neuro Sciences')

SELECT \* from DUAL

INSERT ALL

into Department values ('Anaesthesia','Floor 1','Critical Care & Pain Management')

into Department values ('Cardiac','Floor 2','Surgery')

into Department values ('Diagnostics','Floor 3','Diagnosis')

into Department values ('ENT','Floor 4','Medicine')

into Department values ('General Surgery','Floor 5','Surgery')

into Department values ('Neuro Sciences','Floor 6','Diagnosis with Surgery')

into Department values ('Physiotherapy','Floor 7','Critical care & Pain Management')

into Department values ('Psychiatry','Floor 8','Diagnosis')

into Department values ('Orthopaedic','Floor 9','Critical Care & Pain Management')

into Department values ('Pulmonary','Floor 10','Medicine')

SELECT \* from DUAL

INSERT ALL

into Doctor values ('DR01','Anaesthesia')

into Doctor values ('DR02','Anaesthesia')

into Doctor values ('DC01','Anaesthesia')

into Doctor values ('DC02','Anaesthesia')

into Doctor values ('DR03','Cardiac')

into Doctor values ('DR04','Cardiac')

into Doctor values ('DC03','Cardiac')

into Doctor values ('DC04','Cardiac')

into Doctor values ('DR05','Diagnostics')

into Doctor values ('DR06','Diagnostics')

into Doctor values ('DC05','Diagnostics')

into Doctor values ('DC06','Diagnostics')

into Doctor values ('DR07','ENT')

into Doctor values ('DR08','ENT')

into Doctor values ('DC07','ENT')

into Doctor values ('DC08','ENT')

into Doctor values ('DR09','General Surgery')

into Doctor values ('DR10','General Surgery')

into Doctor values ('DC09','General Surgery')

into Doctor values ('DC10','General Surgery')

into Doctor values ('DR11','Neuro Sciences')

into Doctor values ('DR12','Neuro Sciences')

into Doctor values ('DC11','Neuro Sciences')

into Doctor values ('DC12','Neuro Sciences')

into Doctor values ('DR13','Physiotherapy')

into Doctor values ('DR14','Physiotherapy')

into Doctor values ('DC13','Physiotherapy')

into Doctor values ('DC14','Physiotherapy')

into Doctor values ('DR15','Psychiatry')

into Doctor values ('DR16','Psychiatry')

into Doctor values ('DC15','Psychiatry')

into Doctor values ('DC16','Psychiatry')

into Doctor values ('DR17','Orthopaedic')

into Doctor values ('DR18','Orthopaedic')

into Doctor values ('DC17','Orthopaedic')

into Doctor values ('DC18','Orthopaedic')

into Doctor values ('DR19','Pulmonary')

into Doctor values ('DR20','Pulmonary')

into Doctor values ('DC19','Pulmonary')

into Doctor values ('DC20','Pulmonary')

SELECT \* from DUAL

INSERT ALL

into Patient values ('PT001','AAA',35,'M','Civil Lines','Kanpur',9080706051,'01-JUN-2016','Cardiac Problem','DR03','Cardiac')

into Patient values ('PT002','AAB',40,'F','Kalyanpur','Kanpur',9080706052,'02-JUN-2016','Physio Problem','DR13','Physiotherapy')

into Patient values ('PT003','AAC',45,'M','Parade','Kanpur',9080706053,'01-JUN-2016','ENT Problem','DC13','ENT')

into Patient values ('PT004','AAD',50,'F','Rawatpur','Kanpur',9080706054,'02-JUN-2016','Diagnostics Problem','DR05','Diagnostics')

into Patient values ('PT005','AAE',55,'M','Harjinder Nagar','Kanpur',9080706055,'03-JUN-2016','Neuro Problem','DR11','Neuro Sciences')

into Patient values ('PT006','BAA',35,'M','Civil Lines','Lucknow',9080706061,'01-JUN-2016','Ortho Problem','DC17','Orthopaedic')

into Patient values ('PT007','BAB',40,'F','Charbagh','Lucknow',9080706062,'02-JUN-2016','Surgery','DC09','General Surgery')

into Patient values ('PT008','BAC',45,'M','Alambagh','Lucknow',9080706063,'01-JUN-2016','ENT Problem','DC13','ENT')

into Patient values ('PT009','BAD',50,'F','Gomti Nagar','Lucknow',9080706064,'02-JUN-2016','Surgery','DR09','General Surgery')

into Patient values ('PT010','BAE',55,'M','Hazrat Ganj','Lucknow',9080706065,'03-JUN-2016','Neuro Problem','DR11','Neuro Sciences')

into Patient values ('PT011','CAA',35,'M','Karol Bagh','New Delhi',9080706071,'01-JUN-2016','Pulmonary Problem','DR19','Pulmonary')

into Patient values ('PT012','CAB',40,'F','GTB Nagar','New Delhi',9080706072,'02-JUN-2016','Surgery','DC09','General Surgery')

into Patient values ('PT013','CAC',45,'M','Azad Nagar','New Delhi',9080706073,'01-JUN-2016','ENT Problem','DC13','ENT')

into Patient values ('PT014','CAD',50,'F','Nehru Palace','New Delhi',9080706074,'02-JUN-2016','Surgery','DR09','General Surgery')

into Patient values ('PT015','CAE',55,'M','Sarojini Nagar','New Delhi',9080706075,'03-JUN-2016','Neuro Problem','DR11','Neuro Sciences')

into Patient values ('PT016','DAA',35,'M','Civil Lines','Allahabad',9080706081,'01-JUN-2016','Pulmonary Problem','DR19','Pulmonary')

into Patient values ('PT017','DAB',40,'F','MG Road','Allahabad',9080706082,'02-JUN-2016','Surgery','DR09','General Surgery')

into Patient values ('PT018','DAC',45,'M','Arya Nagar','Allahabad',9080706083,'02-JUN-2016','Ortho Problem','DR18','Orthopaedic')

into Patient values ('PT019','DAD',50,'F','Azad Nagar','Allahabad',9080706084,'03-JUN-2016','Surgery','DR10','General Surgery')

into Patient values ('PT020','DAE',55,'M','Cantonment','Allahabad',9080706085,'03-JUN-2016','Neuro Problem','DC12','Neuro Sciences')

SELECT \* from DUAL

INSERT ALL

into ROOM\_DETAILS values (101,'P AC','N','PT001',5000)

into ROOM\_DETAILS values (102,'P AC','N','PT003',5000)

into ROOM\_DETAILS values (103,'P AC','N','PT010',5000)

into ROOM\_DETAILS values (104,'P AC','N','PT019',5000)

into ROOM\_DETAILS values (105,'P AC','N','PT020',5000)

into ROOM\_DETAILS values (201,'P NON-AC','N','PT007',3000)

into ROOM\_DETAILS values (202,'P NON-AC','N','PT005',3000)

into ROOM\_DETAILS values (203,'P NON-AC','Y','',3000)

into ROOM\_DETAILS values (204,'P NON-AC','Y','',3000)

into ROOM\_DETAILS values (205,'P NON-AC','Y','',3000)

into ROOM\_DETAILS values (301,'G AC','N','PT009',3000)

into ROOM\_DETAILS values (302,'G AC','N','PT012',3000)

into ROOM\_DETAILS values (303,'G AC','N','PT014',3000)

into ROOM\_DETAILS values (304,'G AC','Y','',3000)

into ROOM\_DETAILS values (305,'G AC','Y','',3000)

into ROOM\_DETAILS values (401,'G NON-AC','Y','PT011',2000)

into ROOM\_DETAILS values (402,'G NON-AC','Y','PT017',2000)

into ROOM\_DETAILS values (403,'G NON-AC','Y','',2000)

into ROOM\_DETAILS values (404,'G NON-AC','Y','',2000)

into ROOM\_DETAILS values (405,'G NON-AC','Y','',2000)

SELECT \* from DUAL

INSERT ALL

into DOC\_REG values ('DR01','Dr. A','MD',80000,8090607011,'01-Jan-2004')

into DOC\_REG values ('DR02','Dr. B','MD',60000,8090607012,'01-Mar-2007')

into DOC\_REG values ('DR03','Dr. C','MBBS',100000,8090607013,'01-May-2008')

into DOC\_REG values ('DR04','Dr. D','MBBS',120000,8090607014,'01-Jul-2010')

into DOC\_REG values ('DR05','Dr. E','MD',50000,8090607015,'01-Sep-2006')

into DOC\_REG values ('DR06','Dr. F','MD',60000,8090607016,'01-Nov-2012')

into DOC\_REG values ('DR07','Dr. G','MBBS',80000,8090607017,'01-Feb-2010')

into DOC\_REG values ('DR08','Dr. H','MBBS',90000,8090607018,'01-Apr-2013')

into DOC\_REG values ('DR09','Dr. I','MBBS',120000,8090607019,'01-Jun-2010')

into DOC\_REG values ('DR10','Dr. J','MBBS',150000,8090607020,'01-Aug-2015')

into DOC\_REG values ('DR11','Dr. K','MBBS',140000,8090607031,'01-Oct-2012')

into DOC\_REG values ('DR12','Dr. L','MD',120000,8090607032,'01-Dec-2010')

into DOC\_REG values ('DR13','Dr. M','MBBS',80000,8090607033,'01-Nov-2011')

into DOC\_REG values ('DR14','Dr. N','MD',60000,8090607034,'01-Aug-2014')

into DOC\_REG values ('DR15','Dr. O','MD',60000,8090607035,'01-Apr-2015')

into DOC\_REG values ('DR16','Dr. P','MD',60000,8090607036,'01-Jan-2010')

into DOC\_REG values ('DR17','Dr. Q','MBBS',90000,8090607037,'01-Mar-2007')

into DOC\_REG values ('DR18','Dr. R','MD',70000,8090607038,'01-Jun-2009')

into DOC\_REG values ('DR19','Dr. S','MD',650000,8090607039,'01-Sep-2010')

into DOC\_REG values ('DR20','Dr. T','MD',70000,8090607040,'01-Dec-2012')

SELECT \* from DUAL

INSERT ALL

into DOC\_ON\_CALL values ('DC01','Dr. AT','MD',800,8090607051)

into DOC\_ON\_CALL values ('DC02','Dr. BS','MD',600,8090607052)

into DOC\_ON\_CALL values ('DC03','Dr. CR','MBBS',1000,8090607053)

into DOC\_ON\_CALL values ('DC04','Dr. DQ','MBBS',1200,8090607054)

into DOC\_ON\_CALL values ('DC05','Dr. EP','MD',500,8090607055)

into DOC\_ON\_CALL values ('DC06','Dr. FO','MD',600,8090607056)

into DOC\_ON\_CALL values ('DC07','Dr. GN','MBBS',800,8090607057)

into DOC\_ON\_CALL values ('DC08','Dr. HM','MBBS',900,8090607058)

into DOC\_ON\_CALL values ('DC09','Dr. IL','MBBS',1200,8090607059)

into DOC\_ON\_CALL values ('DC10','Dr. JK','MBBS',1500,8090607060)

into DOC\_ON\_CALL values ('DC11','Dr. KJ','MBBS',1400,8090607081)

into DOC\_ON\_CALL values ('DC12','Dr. LI','MD',1200,8090607082)

into DOC\_ON\_CALL values ('DC13','Dr. MH','MBBS',800,8090607083)

into DOC\_ON\_CALL values ('DC14','Dr. NG','MD',600,8090607084)

into DOC\_ON\_CALL values ('DC15','Dr. OF','MD',600,8090607085)

into DOC\_ON\_CALL values ('DC16','Dr. PE','MD',600,8090607086)

into DOC\_ON\_CALL values ('DC17','Dr. QD','MBBS',900,8090607087)

into DOC\_ON\_CALL values ('DC18','Dr. RC','MD',700,8090607088)

into DOC\_ON\_CALL values ('DC19','Dr. SB','MD',500,8090607089)

into DOC\_ON\_CALL values ('DC20','Dr. TA','MD',600,8090607090)

SELECT \* from DUAL

INSERT ALL

into Pat\_checkup values ('PT001','DR03','Cardiac Problem','Referred for Operation','Preliminary')

into Pat\_checkup values ('PT002','DR13','Physio Problem','Regular Patient','Regular Treatment')

into Pat\_checkup values ('PT003','DC13','ENT Problem','Admitted','Adviced Treatment')

into Pat\_checkup values ('PT004','DR05','Diagnostics Problem','Regular Patient','Regular Treatment')

into Pat\_checkup values ('PT005','DR11','Neuro Problem','Referred for Operation','Preliminary')

into Pat\_checkup values ('PT006','DC17','Ortho Problem','Regular Patient','Regular Treatment')

into Pat\_checkup values ('PT007','DC09','Surgery','Referred for Operation','Preliminary')

into Pat\_checkup values ('PT008','DC13','ENT Problem','Regular Patient','Regular Treatment')

into Pat\_checkup values ('PT009','DR09','Surgery','Referred for Operation','Preliminary')

into Pat\_checkup values ('PT010','DR11','Neuro Problem','Admitted','Adviced Treatment')

into Pat\_checkup values ('PT011','DR19','Pulmonary Problem','Admitted','Adviced Treatment')

into Pat\_checkup values ('PT012','DC09','Surgery','Referred for Operation','Preliminary')

into Pat\_checkup values ('PT013','DC13','ENT Problem','Regular Patient','Regular Treatment')

into Pat\_checkup values ('PT014','DR09','Surgery','Referred for Operation','Preliminary')

into Pat\_checkup values ('PT015','DR11','Neuro Problem','Regular Patient','Regular Treatment')

into Pat\_checkup values ('PT016','DR19','Pulmonary Problem','Regular Patient','Regular Treatment')

into Pat\_checkup values ('PT017','DR09','Surgery','Referred for Operation','Preliminary')

into Pat\_checkup values ('PT018','DR18','Ortho Problem','Regular Patient','Regular Treatment')

into Pat\_checkup values ('PT019','DR10','Surgery','Referred for Operation','Preliminary')

into Pat\_checkup values ('PT020','DC12','Neuro Problem','Admitted','Adviced Treatment')

SELECT \* from DUAL

INSERT ALL

into Pat\_Admit values ('PT001','DR03','Cardiac Problem','Referred for Operation','Preliminary','31-May-2016',101)

into Pat\_Admit values ('PT003','DC13','ENT Problem','Admitted','Adviced Treatment','29-May-2016',102)

into Pat\_Admit values ('PT005','DR11','Neuro Problem','Referred for Operation','Preliminary','30-May-2016',202)

into Pat\_Admit values ('PT007','DC09','Surgery','Referred for Operation','Preliminary','30-May-2016',201)

into Pat\_Admit values ('PT009','DR09','Surgery','Referred for Operation','Preliminary','29-May-2016',301)

into Pat\_Admit values ('PT010','DR11','Neuro Problem','Admitted','Adviced Treatment','03-Jun-2016',103)

into Pat\_Admit values ('PT011','DR19','Pulmonary Problem','Admitted','Adviced Treatment','30-May-2016',401)

into Pat\_Admit values ('PT012','DC09','Surgery','Referred for Operation','Preliminary','31-May-2016',302)

into Pat\_Admit values ('PT014','DR09','Surgery','Referred for Operation','Preliminary','30-May-2016',303)

into Pat\_Admit values ('PT017','DR09','Surgery','Referred for Operation','Preliminary','31-May-2016',402)

into Pat\_Admit values ('PT019','DR10','Surgery','Referred for Operation','Preliminary','31-May-2016',104)

into Pat\_Admit values ('PT020','DC12','Neuro Problem','Admitted','Adviced Treatment','30-May-2016',105)

SELECT \* from DUAL

INSERT ALL

into Pat\_Reg values ('PT001','21-Feb-2016','Cardiac Problem','Preliminary','Regular')

into Pat\_Reg values ('PT002','31-Mar-2016','Physio Problem','Regular Treatment','Basic')

into Pat\_Reg values ('PT003','12-Feb-2016','ENT Problem','Adviced Treatment','Basic')

into Pat\_Reg values ('PT004','05-Apr-2016','Diagnostics Problem','Regular Treatment','Basic')

into Pat\_Reg values ('PT005','11-May-2016','Neuro Problem','Preliminary','Regular')

into Pat\_Reg values ('PT006','17-May-2016','Ortho Problem','Regular Treatment','Regular')

into Pat\_Reg values ('PT007','30-May-2016','Surgery','Preliminary','Cured')

into Pat\_Reg values ('PT008','13-Mar-2016','ENT Problem','Regular Treatment','Regular')

into Pat\_Reg values ('PT009','19-May-2016','Surgery','Preliminary','Cured')

into Pat\_Reg values ('PT010','11-May-2016','Neuro Problem','Adviced Treatment','Regular')

into Pat\_Reg values ('PT011','19-Feb-2016','Pulmonary Problem','Adviced Treatment','Basic')

into Pat\_Reg values ('PT012','30-May-2016','Surgery','Preliminary','Cured')

into Pat\_Reg values ('PT013','13-Apr-2016','ENT Problem','Regular Treatment','Basic')

into Pat\_Reg values ('PT014','27-May-2016','Surgery','Preliminary','Cured')

into Pat\_Reg values ('PT015','11-Mar-2016','Neuro Problem','Regular Treatment','Regular')

into Pat\_Reg values ('PT016','19-Apr-2016','Pulmonary Problem','Regular Treatment','Basic')

into Pat\_Reg values ('PT017','29-May-2016','Surgery','Preliminary','Cured')

into Pat\_Reg values ('PT018','18-May-2016','Ortho Problem','Regular Treatment','Regular')

into Pat\_Reg values ('PT019','31-May-2016','Surgery','Preliminary','Cured')

into Pat\_Reg values ('PT020','02-Jun-2016','Neuro Problem','Adviced Treatment','Regular')

SELECT \* from DUAL

INSERT ALL

into Pat\_Oprtn values ('PT001','DR03','31-May-16','01-Jun-2016','Major','OT 1')

into Pat\_Oprtn values ('PT005','DR11','30-May-16','01-Jun-2016','Major','OT 2')

into Pat\_Oprtn values ('PT007','DC09','30-May-16','02-Jun-2016','Minor','OT 1')

into Pat\_Oprtn values ('PT009','DR09','29-May-16','31-May-2016','Minor','OT 2')

into Pat\_Oprtn values ('PT012','DC09','31-May-16','02-Jun-2016','Minor','OT 1')

into Pat\_Oprtn values ('PT014','DR09','30-May-16','03-Jun-2016','Major','OT 2')

into Pat\_Oprtn values ('PT017','DR09','31-May-16','03-Jun-2016','Minor','OT 1')

into Pat\_Oprtn values ('PT019','DR10','31-May-16','31-May-2016','Major','OT 2')

SELECT \* from DUAL

INSERT ALL

into Pat\_Dischrg values ('PT001','DR03','Cardiac Problem','Regular',154165,'06-Jun-16')

into Pat\_Dischrg values ('PT003','DC13','ENT Problem','Short Term',52304,'04-Jun-16')

into Pat\_Dischrg values ('PT005','DR11','Neuro Problem','Long Term',184234,'05-Jun-16')

into Pat\_Dischrg values ('PT007','DC09','Surgery','Short Term',41652,'05-Jun-16')

into Pat\_Dischrg values ('PT009','DR09','Surgery','Regular',35485,'03-Jun-16')

into Pat\_Dischrg values ('PT010','DR11','Neuro Problem','Regular',166168,'07-Jun-16')

into Pat\_Dischrg values ('PT011','DR19','Pulmonary Problem','Long Term',55262,'03-Jun-16')

into Pat\_Dischrg values ('PT012','DC09','Surgery','Short Term',54316,'04-Jun-16')

into Pat\_Dischrg values ('PT014','DR09','Surgery','Long Term',124285,'08-Jun-16')

into Pat\_Dischrg values ('PT017','DR09','Surgery','Short Term',34165,'06-Jun-16')

into Pat\_Dischrg values ('PT019','DR10','Surgery','Long term',24165,'02-Jun-16')

into Pat\_Dischrg values ('PT020','DC12','Neuro Problem','Regular',124784,'04-Jun-16')

SELECT \* from DUAL

CREATE TABLE Department (

D\_NAME varchar2(50),

D\_LOCATION varchar2(20),

FACILITIES varchar2(50),

)

**LAB 4: Learn and Use of builtin function of SQL**

**\*{A separate sheet is provided to run all commands.**

**Note: Mention every command question with its function name.} \***

**LAB 5: Use aggregate function and grouping, Order by clause of SQL**