

INFORMATION TECHNOLOGY (402)
UNIT 7 DATABASE DEVELOPMENT
PRACTICAL QUESTIONS

Q1. Write the SQL commands on the basis of the given table:

Table: HOSPITAL

NO	NAME	AGE	DEPARTMENT	DATEOFADMIN	CHARGES	GENDER
1	Arpit	62	Surgery	12/1/2018	300	M
2	Zarina	22	ENT	12/12/2017	250	F
3	Kareem	32	Orthopaedic	2/19/2018	200	M
4	Arun	12	Surgery	5/1/2018	300	M
5	Zubin	30	ENT	6/18/2018	250	M
6	Ketaki	16	ENT	9/6/2018	250	F
7	Ankita	29	Cardiology	2/20/2018	800	F
8	Zareen	45	Gynaecology	2/22/2018	300	F
9	Kush	19	Cardiology	1/13/2018	800	M
10	Shilpa	23	Nuclear Medicine	1/20/2018	400	F

- a. Write the command to create hospital table.
- b. Write the command to insert the first row.
- c. Write the command to show the records of the table.
- d. Write the command to show Name, Age, and Department from the table.
- e. To select all the information of patients of cardiology department.
- f. To list the names of female patients.
- g. To list names of the all patients with their date of admission in ascending order.
- h. Change the charges of ENT department to 300.
- i. Delete the entry of Patient Kush from the Table.
- j. Add one more record into the table (11, "Suman", 54, "Surgery", "1/15/2018", 300, "F")

Q2. Write an SQL query for the following structure. Table: EMPLOYEE

Field	Type
Emp_no	char(4)
Name	varchar(25)
Salary	Integer(6)
Department	varchar(15)

- a. Identify the Primary Key in the Table.
- b. Create a table Employee.
- c. Insert any 5 records into the table.
- d. Arrange the table according to the Emp_no in ascending order.
- e. Add one record ("Z567", "Rajiv Gupta", 35000, "HR")
- f. Update the Name to Rajeev Gupta of Emp_No. Z567.

Q3. Write the SQL commands to answer the queries based on Fabric Table:

FabricID	Fname	Type	Disc
F001	Shirt	Wollen	10
F002	Suit	Cotton	20
F003	Tunic	Cotton	10
F004	Jeans	Denim	5
F006	Shorts	Cotton	7

- a. To insert the following record ("F005", "Kurta", "wollen", 5).
- b. To display only those fabrics whose disc is more than 10.
- c. To display only those records whose type is 'wollen'.

- d. To modify the fabric shirt by increasing discount of 10.
- e. To delete the record of fabric F003 from table.

Q4. Write the SQL commands on the basis of the given table: Table: STUDENT

Roll_No	Name	DOB	Class	Phone	H_Colour	Email	Location
23	Ravi Kaul	8/13/1999	X	1234567890	Blue	ravikaul@gmail.com	Delhi
13	Bijendar Dalal	1/1/1999	X	9874563215	Green	dalal@gmail.com	Mumbai
7	Radha Swami	1/2/2000	X	9698521470	Orange	radha@gmail.com	Gujarat
32	Vikas Maheswari	11/17/1998	X	9023698574	Blue	Vikasm@gmail.com	Maharashtra
14	Vimla Rani	9/23/1999	X	9487456321	Yellow	Rani@gmail.com	Orissa
26	Sandhya Reddy	12/19/1998	X	9630125478	Blue	Sr@gmail.com	Delhi

- a. Write the command to create Student Table.
- b. Write the command to insert all the records.
- c. Write the command to show the student table.
- d. Write the command to show details of the students whose House Colour is Blue from the table.
- e. To view records in ascending order of Roll_No from the table.
- e. To select all the information of all the students who belongs to Delhi City.
- f. To list the names of students, Phone and Location from the table.
- g. To view records in descending order of Roll_No from the table.
- h. Add one more record into the table (8, "Ranjith Singh", "12/03/1999", "X", 9856321470, "ranjith@gmail.com", "White", "Bihar")
- i. To delete the record of student Roll_No 8.
- j. To update the record Location to Bhubaneswar of Roll_No 14.
- k. Change the class of student Ravi Kaul to XII.

Q5. Write the SQL commands to answer the queries based on TABLE : BOOKS

Book_id	Book_name	Author_name	Publishers	Price	Type	Qty
F001	The tears	William Hopkins	First Publ.	750	Fiction	10
F002	Thunderbolts	Anna Roberts	First Publ.	700	Fiction	5
T003	My first C++	Brian & Brooke	EPB	250	Text	10
T004	Info Practices	Sumita Arora	BPB Publ.	275	Text	5
C001	Fast Cook	Lata Kapoor	EPB	350	Cookery	8

- a. Create a table : Books
- b. Identify the primary key in the table.
- c. List the names of books of type fiction.
- d. List the books in descending order of qty.
- e. Change the qty of F001 To 15
- f. Delete the record of book T004
- g. List the books whose price is more than 500.

Q6. Write the answers based on the following table: Table: Manger

Deptno	Deptname	Name	City
S101	Sales	Pranjal Sharma	Delhi
HR404	HR	Preeti Arora	Chennai
P204	Purchase	Sukhmeen Singh	Bangalore
AD990	Admin	Sukanya Kumar	Mumbai

- Identify the Primary key in the Table.
- Create the Table Manager.
- Suggest a suitable data type for the Deptname field.
- Write a query to display all the records of the table.
- Add a new record with the following details:
(‘S106’, ‘Sales’, ‘KritikaTuteja’, ‘Delhi’).
- Display the only the details of Name and City.
- Change the Department name of S106 to HR.
- Display the details of Manager who belongs to Delhi City.
- Arrange the table according to Department Number in ascending order.
- Update the name of the manager Preeti Arora to Preeti Sharma.
- Add one more record (“I459”, “Admin”, “Aman Gupta”, “Chennai”).
- Delete the record of I459 from the table.

Q7. Write the SQL commands to answer the queries based on TABLE: TOY

Sno	Toy_name	Category	Price	Qty
1	Popeye	Stuff toy	150	12
2	Rapid Fire	Two Players	600	25
3	Teddy	Stuff Toy	300	40
4	Creative	Building Block	800	18
5	Ping Pong	Two Players	500	53

- Write the command to create a table.
- Write the command to insert the first row.
- Write the command to display the table.
- To display the toys of category Stuff Toys.
- To display toys in ascending order of toy.
- To display all the toys whose quantity is more than 20.
- To display all the toys whose price is less than 500.
- Delete the record of toy Ping Pong.
- Change the quantity of Ping Pong to 60.
- Display the table according to the price in descending order.

Q8. Write the SQL commands to answer the queries based on Teacher table:

Table: TEACHER

NO	NAME	AGE	DEPT	DATEOFJOIN	SALARY	GENDER
1	Jugal	34	Computer	10/1/2017	20000	M
2	Sharmila	31	History	12/8/2016	20000	F
3	Sandeep	32	Maths	6/15/2014	30000	M
4	Sangeeta	35	History	8/19/2017	40000	F
5	Rakesh	42	Maths	4/11/2018	25000	M

- Create the table TEACHER.
- To show information about the teachers of history department
- To list the names of teachers earning salary between 12000 and 25000
- To list name and age of teachers in ascending order of date of join
- To change the salary of jugal to 25000.
- To list the names of teachers earning salary more than 30000.
- Display the full table Teacher.
- Display the table according to the age in descending order.
- Display only Male teachers.
- To show information about the teachers of maths department.
- To list the names of teachers earning salary less than 30000.
- To list name and salary of teachers in descending order of date of join.
- To change the dept of sangeeta to computer.
- To display only name, age and salary of the teachers.
- To delete the record of teacher rakesh.

Q9. Write the SQL commands to answer the queries based on Hospital table

TABLE: HOSPITAL

NO	NAME	AGE	DEPARTMENT	CHARGES	SEX
1	Sandeep	65	Surgery	300	M
2	Karan	24	Orthopedic	200	F
3	Zubin	36	ENT	250	M
4	Ankita	29	ENT	350	F
5	Kush	19	Surgery	800	M

- Create a table hospital.
- Name the primary key of the table.
- Display all the information of the table HOSPITAL.
- To show all the information about the patients of surgery department.
- To list the names of female patients who are in orthopedic department.
- To list names of all patients with their charges in descending order.
- Increase the charges of sandeep to 500.
- To display the list of doctors whose age >30.
- Delete the record of Zubin.
- Change the department of ankita to Surgery.

Q10. Write the SQL commands on the basis of the given table:

Table: SUPPLIER

SNo	Pname	SName	Qty	Price	City
S1	Bread	Britannia	150	8	Delhi
S2	Cake	Britannia	250	20	Mumbai
S3	Coffee	Nescafe	170	45	Mumbai
S4	Chocolate	Amul	380	10	Delhi
S5	Sauce	Kissan	470	36	Jaipur

- a. Identify the primary key in the table.
- b. Create table Supplier.
- c. To insert first record in the table.
- d. To select all the columns of the above table.
- e. To select the Pname and SName from the above table.
- f. Display data for all products sorted by their price.
- g. Update the price of the Product – Kissan to Rs. 40 of Jaipur City.
- h. Display only Delhi city Suppliers.
- i. Display only Product name and price from the table.
- j. Delete the record from the table whose SNo is S10.
- k. To insert a new record in the table: (S6, Milk, Amul , 100, 42, Delhi)
- l. Display only the details of Amul Supplier.
- m. Update the quantity to 200 of S6.
- n. Display the entire supplier name in ascending order.
- o. Remove the record whose supplier is Godrej.