

SQL QUESTION BANK

- 1) How many command categories are there in SQL?
- 2) Explain difference between DML & DDL?
- 3) What is the purpose of TCL commands?
- 4) What is the difference between CHAR and VARCHAR data type?
- 5) Which command is used in SQL to discard the changes done in the database recently?
- 6) What are scalar functions?
- 7) What is the significance of Group by Clause in SQL?
- 8) What is Equi Join?
- 9) While creating the table Book, Ms. Manasvi forgot to include two fields author and publisher help her to write the suitable command(s) to do so.
- 10) Explain referential integrity?
- 11) What do you mean by constraints?
- 12) What is the difference between Column constraints and Table constraints?
- 13) How is PRIMARY KEY constraint different from UNIQUE constraint?
- 14) What is DEFAULT and NOT NULL constraint?
- 15) Explain the Primary Key, Candidate Key and Alternate key through an Example.
- 16) Explain the Concept of Primary key and Foreign Key using suitable example
- 17) What is the difference between DISTINCT and ALL?
- 18) Write a SQL statement to display the current date and time.
- 19) What is the use of CURDATE() and SYSDATE()?

20) What is the difference between

- DROP and DELETE command?
- UPDATE and ALTER commands
- COUNT (<column name>) and COUNT (*)
- GROUP BY and ORDER BY

21) Differentiate the following

- EQUI and NATURAL JOIN
- EQUI and NON EQUI join
- CARTESIAN PRODUCT and CROSS JOIN

22) What are the commands used to (Table Name : LIBRARY)

- I. Sort records in Ascending order of their book_name
- II. To delete a row with a Book no B1729 from table LIBRARY
- III. To insert a row containing bookno, book_name, price, author and publisher in the table LIBRARY
- IV. To calculate total amount of books available in the LIBRARY
- V. To count total number of books available for same publisher
- VI. To display Bookname and Author of the book.
- VII. To delete all the records
- VIII. To change the name of Author from Shobha to Shobhna.
- IX. To display name of book having highest Cost
- X. To display details of books whose name of publishers are starts with letter 'S'

23. Study the following tables DOCTOR and SALARY and write SQL commands for the questions (i) to (iv) and give outputs for SQL queries (v) to (vi):

TABLE : DOCTOR

ID	NAME	DEPT	SEX	EXPERIENCE
101	John	ENT	M	12
104	Smith	ORTHOPEdic	M	5
107	George	CARDIOLOGY	M	10
114	Lara	SKIN	F	3
109	K George	MEDICINE	F	9
105	Johnson	ORTHOPEdic	M	10
117	Lucy	ENT	F	3
111	Bill	MEDICINE	F	12
130	Sony	ORTHOPEdic	M	15

TABLE : SALARY

ID	BASIC	ALLOWANCE	CONSULTATION
101	12000	1000	300
104	23000	2300	500
107	32000	4000	500
114	12000	5200	100
109	42000	1700	200
105	18900	1690	300
130	21700	2600	300

- i. Display NAME of all doctors who are in "MEDICINE" having more than 10 years experience from the table DOCTOR.
- ii. Display the average salary of all doctors working in "ENT" department using the tables DOCTOR and SALARY. Salary = BASIC + ALLOWANCE
- iii. Display Name and Department Female doctors with more than 5 years of experience.
- iv. Display the highest consultation fee among all male doctors.
- v. SELECT count(*) from DOCTOR where SEX "F"
- vi. SELECT NAME from DOCTOR where DEPT LIKE "OR%" and NAME LIKE 'S%'

25. Consider the following tables Stationery and Consumer :

Table: Stationery

St_ID	StationeryName	Company	Price
DP01	Dot Pen	ABC	10
PL02	Pencil	XYZ	6
ER05	Eraser	XYZ	7
PL01	Pencil	CAM	5
GP02	Gel Pen	ABC	15

Table: Consumer

Cust_ID	ConsumerName	Address	S_ID
01	Good Learner	Delhi	PL01
06	Write Well	Mumbai	GP02
12	Topper	Delhi	DP01
15	Write & Draw	Delhi	PL02
16	Motivation	Banglore	PL01

Write SQL commands for the statement (i) to (iv).

- (i) To display the details of those consumers whose Address is Delhi.
- (ii) To display the details of Stationery whose Price is in the range of 8 to 15.
(Both Value included)
- (iii) To display the ConsumerName, Address from Table Consumer, and Company and Price from table Stationery, with their corresponding matching S_ID.
- (iv) To increase the Price of all Stationery by 2.

Write output for SQL queries (v) to (viii):

- (v) `SELECT DISTINCT Address FROM Consumer;`
- (vi) `SELECT Company, MAX(Price), MIN(Price), COUNT(*) from Stationery GROUP BY Company;`
- (vii) `SELECT Consumer.ConsumerName, Stationery. Stationary Name, Stationery.Price FROM Stationery, Consumer WHERE Consumer.S_ID= Stationery.S_ID;`
- (viii) `Select StationaryName, Price*3 From Stationery;`