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Code Number 65/1



INDIAN SCHOOL MUSCAT
FIRST TERM EXAMINATION
INFORMATICS PRACTICES

CLASS: XII
 30.04.2018

Sub. Code: 065

Time Allotted: 3 Hrs
 Max. Marks: 70

Instructions:

1. All the questions are compulsory
2. Read the Question carefully and write the Answer

- Q1.
- a) How SWITCH is different from HUB? Explain 2
 - b) What is the purpose of IP address of computer ? 2
 - c) How BUS topology is different from STAR topology? 2
 - d) Which of the following are valid IP addresses ? Give reason(s) if invalid. 2
 - (i) 121.23.1.45
 - (ii) 192.168.0.254
 - (iii) 192.168.AS.1
 - (iv) 198.-1.1.1
 - e) How Cracker is different from Hacker in Computer Science? 2
 - f) Identify the odd one out of the following : 2
 Optical Fiber/Coaxial Cable/Bluetooth/Twisted Pair Cable Give reason for your answer.
 - g) Define Network. Write any two application of network. 2
 - h) Define Domain Name Resolution. . 2
 - i) Write the full form of a) CDMA b)GSM 2
 - j) Explain the following term a) Firewall b) Snooping 2
- Q2.
- a) How WHERE clause is different from HAVING Clause? Explain with an example. 2
 - b) What is the use of BETWEEN AND operator in mysql? Explain with an example. 2

- c) Find the output of the following: 2
1. Select left(concat("ABCD","EFG"),2);
 2. Select dayofyear("2017-02-04");
 3. Select round(5567.78,1)+truncate(3758.91,1);
 4. Select pow(length("Chennai"),4);
 5. Select instr("FLOOR","OR");
- d) Ms. Rhea created the table EMPLOYEE with the following fields: 2
 ENO,ENAME,ESALand DEPTNO. While creating a table she forgot to add the primary key. Help her to add the primary key to the above table and identify the primary key field.
- e) Define Transaction and write all the commands under TCL. 2
- f) Karan wants to add another column 'Gender' in the already existing table 'CUST'. 2
 he has written the following statement.
 However, it has errors. Rewrite the correct statement.
- CHANGE TABLE CUST GENDER char(1);
- g) How Single Row functions are different from Aggregate Functions. 3
 Explain with an example.
- h) Given below is the 'Department' table : 3

DEPCODE	DEPNAME
101	ADMIN
102	RECEPTION
103	PERSONNEL

```

SET AUTOCOMMIT = 0;
UPDATE Department SET DEPNAME = 'IT' WHERE
DEPNAME = 'PERSONAL';
INSERT INTO Department VALUES(104, 'SALES');
UPDATE Department SET DEPNAME = 'FRONT OFFICE' WHERE
DEPNAME = 'RECEPTION';
COMMIT;
DELETE FROM Department WHERE DEPNAME = 'FRONT
OFFICE';
ROLLBACK;
SELECT * FROM Department;

```

What will be the output of the above given SELECT statement ?

- i) “A & B” Company conducts workshops for employees of organizations. The company requires data of workshops that are organized. Write SQL query to create a table ‘Workshop’ with the following structure :

Field	Type	Constraint
WShopId	Integer	Primary key
Title	Varchar(50)	
DateWorkshop	Date	
NumSpeakers	Integer	

- j) Consider the Table “ Employee” shown below :

Table: Employee

No.	Name	Salary	Area	Age	Grade	Dept
1	Keshar	40000	West	45	C	Civil
2	Manish	35000	South	38	A	Elec
3	Kripple	60000	North	52	B	Civil
4	Aryan	38000	North	29	B	Civil
5	Samsons	42000	East	35	A	Comp
6	Biswal	29000	South	34	A	Mech

Write the commands in SQL for (i) to (viii) and output for (ix) and (x).

- (i) To display the details about the Employee name which contains the character“i” anywhere.
- (ii) To list the names of employee and their salary who are all in C and B grade.
- (iii) To list the names who are all in South and their department is Comp.
- (iv) To display the number of employees in each grade.
- (v) Write a Query to display the structure of the table.
- (vi) To increase the salary of the employees by 10 % those who are all from “SOUTH”.

- (vii) To display the minimum salary from the table employee.
- (viii) To display all the employees name in descending order of their grade.

(ix) `SELECT MID (ename,length("A")) FROM employee;`

(x) `SELECT MAX(salary)-MIN(SLARY) FROM EMPLOYEE GROUP BY AREA;`

- k) The CoachName column of a table "Club" is given below:

2

CoachName
Raghav
Sumit
Anurag
Rohit
Lucky

Based on this information, find the output of the following queries:

(a) `SELECT CoachName FROM CLUB WHERE CoachName LIKE '%a_';`

(b) `SELECT CoachName FROM CLUB WHERE CoachName LIKE 'an%';`

- l) A table book in a database has 5 columns and 5 rows in it. What is its degree?
What will be its degree if 7 rows are added in the table?

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- m) In a database there are two tables "ITEM", and "Customer" as shown below:

5*2=10

ITEM			
P_ID	ProductName	Manufacturer	Price
1001	Moisturizer	XYZ	40
1002	Sanitizer	LAC	35
1003	Bath Soap	COP	25
1004	Shampoo	TAP	95
1005`	Leans Salution	COP	350

CUSTOMER

C_ID	ClientName	City	P_ID
01	Samridh Ltd	New Delhi	1002
05	Big Line	Mumbai	1005
12	S & S	New Delhi	1001
15	Tom n Jerry	Bangalore	1003

Write the commands in SQL for the following:

- 1) To display the Clientname, City,P_ID from Customer and Product name and price from table Item, with their corresponding matching ID.
- 2) To display all the client name, product name from both the tables those who are from Delhi city.
- 3) Identify the primary and foreign key from CUSTOMER table.
- 4) Display all the product name and their corresponding client name, city whose city name not contains the character "I" anywhere.
- 5) Increase the unit price of Bath Soap by 10%.

n) Explain the following:

- 1) USING clause
- 2) DML
- 3) ROLLBACK TO

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End of the Question Paper