Q.P. 30231 (01)

Solution set 2

Q.1 Attempt All.

a)

1. avg(salary)
2. create view v as "query expression"
3. a Binary operator
4. three levels
5. DCL

b)

1. row
2. unique
3. committed
4. length
5. DDL

c)

1. A **database** is a collection of related data.
2. Proper Syntax – 1mark (insert into <table name> values …)
3. to protect data …– 1mark.
4. a query within a query– 1mark
5. phone no.

Q.2 Answer The Following

a)

Levels of Abstraction –

Physical Level

Logical Level

View Level

Explanation – 3 marks

Diagram – 2marks

b) There are 3 Record Based Logical data models- Listing of it -1 mark

i) Hierarchical Model

ii) Network Model

iii) Relational data model
Explanation of any one model -4 mark.

c) Binary Relationship – 2marks
Ternary Relationship – 2marks
Example – 1 mark

d) Any 5 characteristics – 1 mark each

e) Each Definition – 1mark

f) Valid Entities – 2 marks
Valid attributes – 2 marks
Relationships – 1mark

Q.3 Answer The Following

a) Explanation – 3 mark
Example -2 mark

b) Explanation of operators – 2 marks.
Query examples – 3 mark

c) Backup database – $2^{1/2}$ marks
Restore Database – $2^{1/2}$ marks

d) Group by clause and Having Clause explanation – 3 marks
Query example – 2 marks

e) avg() min() max() count(*) … each 1 marks
f)i) Create table Book(bookid int primary key,
title varchar(20),
author varchar(20),
publisher varchar(20),
category varchar(20),

price int);

ii) select * from book where title like 'D%';
iii) ALTER TABLE books ADD year INT;
iv) Select * from Books where price between 500 and 1000;

Q.4 Answer The Following

a) Any 5 functions – 1mark each
b) Definition of Join - 1mark
Left outer Join with query example – 2 marks
Right outer Join with query example – 2 marks

c) explanation of threats – 5 marks
d) Explanation of privileges – 1 mark
Grant Privileges with example – 2mark
Revoke Privilege with example – 2mark
e) Correlated subquery explanation – 2 mark.
Syntax -1 mark
Example – 2 mark
f)
i) Select sname, city
from supplier s , orders o
where s.suppno=o.suppno;

ii) Create view v1 as
select city, count(*)
from supplier
group by city;

iii) select *
from supplier
where suppno NOT IN (select suppno
from orders);

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Q.5 Answer The Following

a) Aggregation Concept – 2marks
Example – 2 marks
Diagram – 1mark

b) Any 5 drawbacks – 1 mark each

c) Use of Distinct – 1 mark
Use of All – 1marks
Queries using Distinct and All – 3 marks.

d) Creation of User -$2^{1/2}$ marks
Dropping of user – $2^{1/2}$ marks

e) Definition of view – 1 marks
Types – 4 marks.