RCPET's IMRD, Shirpur

Internal Practical Examination

CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max marks: 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

SUPPLIER (Sno, Sname, address, City)

PARTS (Pno, Pname, Color, Weight, price)
PROJECT (Jno, Jname, City)
SPJ (Sno, Pno, Jno, Qty)

Integrity Constraints:

- The values of any attributes should not be null.
- Legal cities are London, Paris, Rome, New York and Amsterdam.
- Supplier Number must start with 'S' followed by a decimal integer in the range of 0 to 9999.

Queries:

a) Find all the projects which are provided 3 or more parts.
b) Write a trigger on PROJECT table for update such that the Jname value should not be repeated.
c) Find full details of all projects in Paris.

RCPET's IMRD, Shirpur

Internal Practical Examination

CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max marks: 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

PRODUCT (Maker, Modelno, Type)
PC (Modelno, Speed, RAM, HD, CD, Price)
LAPTOP (Modelno, Speed, RAM, HD, Price)
PRINTER (Modelno, Color, Type, Price)

Details regarding Schemas

- PC relation contains model no. of PC, its speed in MHz, RAM in MB, HD size in GB, Speed of CD reader, and price.
- The value for Maker in Product table can be IBM, Compaq, etc.
- PRINTER relation contains model no.,value of Color should be T (if printer is color) or F (if printer is black & white), type (laser, ink-jet, dot- matrix or dry) and price.

Integrity Constraints:

- The values of any attributes should not be null.
- Product Type should one of these (PC, Laptop or Printer)

Queries:

a) Find PC models having a speed of at least 160 MHz.
b) Find those manufacturers that sell Laptops, but not PC's.
c) Write a procedure to find the manufacturer who has produced the most expensive laptop.

RCPET's IMRD, Shirpur

Internal Practical Examination

CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max marks: 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

PRODUCT (Maker, Modelno, Type)
PC (Modelno, Speed, RAM, HD, CD, Price)
LAPTOP (Modelno, Speed, RAM, HD, Price)
PRINTER (Modelno, Color, Type, Price)

Details regarding Schemas

- PC relation contains model no. of PC, its speed in MHz, RAM in MB, HD size in GB, Speed of CD reader, and price.
- The value for Maker in Product table can be IBM, Compaq, etc.
- PRINTER relation contains model no., value of Color should be T (if printer is color) or F (if printer is black & white), type(laser, ink-jet, dot- matrix or dry) and price.

Integrity Constraints:

- The values of any attributes should not be null.
- Product Type should one of these (PC, Laptop or Printer)

Queries:

a) Find the different types of printers produced by Epson.
b) Find those hard disk sizes which occur in two or more PC's.
c) Write a trigger on LAPTOP table such that the minimum speed should be 150MHz.

RCPET's IMRD, Shirpur

Internal Practical Examination

CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max marks: 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

DOCTOR (Did, Dname, Daddress, qualification)
PATIENTMASTER (Pcode, Pname, Padd, age, gender, bloodgroup, Did)
ADMITTEDPATIENT (P_code, Entry_date, Discharge_date, ward_no, disease)

Integrity Constraints:

- The values of any attributes should not be null.
- Gender value should be M (male) or F (female).
- Ward no should be less than 5.

Queries:

a) Find the details of doctors who are treating the patient of ward no 4.
b) Find the details of patient who are discharged within the period 13/08/22 to 28/08/22.
c) Write a procedure on ADMITTEDPATIENT table such as to calculate bill of all discharged patients. The charges per day for a ward is Ward no. * 100. e.g. For ward no 3 charges/day are 300Rs.

RCPET's IMRD, Shirpur

Internal Practical Examination

CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max Marks : 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

DOCTOR (Did, Dname, Daddress, qualification)
PATIENTMASTER (Pcode, Pname, Padd, age, gender, bloodgroup, Did)
ADMITTEDPATIENT (P_code, Entry_date, Discharge_date, ward_no, disease)

Integrity Constraints:

- The values of any attributes should not be null.
- Gender value should be M (male) or F(female).
- Ward no should be less than 5.

Queries:

a) Find the details of the doctors who are treating the patients of ward no 3 & display the result along with patient name & disease.

b) Find the name of the disease by which minimum patients are suffering.

c) Write a trigger on ADMITTEDPATIENT table such that the ward no value should be between 1-5.

RCPET's IMRD, Shirpur

Internal Practical Examination

CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max marks : 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least l0 records in each table).

DOCTOR (Did, Dname, Daddress, qualification)
PATIENTMASTER (Pcode, Pname, Padd, age, gender, bloodgroup, Did)
ADMITTEDPATIENT (Pcode, Entry_date, Discharge_date, ward_no, disease)

Integrity Constraints:

- The values of any attributes should not be null.
- Gender value should be M (male) or F(female).
- Ward no should be less than 5.

Queries:

a) Find details of the patients who are treated by M.S. doctors.
b) Find the details of patient who is suffered from blood cancer having age less than 40 years & blood group is A.
c) Write a cursor on PATIENTMASTER table to fetch the last record & display the rows in that table.

RCPET's IMRD, Shirpur
Internal Practical Examination
CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max Marks : 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

DOCTOR (Did, Dname, Daddress, qualification)
PATIENTMASTER (Pcode, Pname, Padd, age, gender, bloodgroup, Did)
ADMITTEDPATIENT (Pcode, Entry date, Discharge date. Ward_no, disease)

Integrity Constraints:

- The values of any attributes should not be null.
- Gender value should be M (male) or F(female).
- Ward no should be less than 5.

Queries:

a) Find details of the patients who are treated by M.S. doctors.
b) Find the name of doctor who is treating maximum number of patients.
c) Create a view on DOCTOR & PATIENTMASTER tables. Update details of the patients who are treated by B.A.M.S. doctors **to M.B.B.S** doctor.

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Internal Practical Examination
CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max Marks : 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

ACCOUNT (accno, open_date. acctype, balance)
TRANSACTION (trans_id, trans date, accno, trans_type, amount)
CUSTOMER (cust_id, name, address, accno)

Integrity Constraints:

- The values of any attributes should not be null.
- Accttype value should be P(Personal) or J(Joint).
- Accno should be less than 4 digits.
- Trans type should be C(Credit) or D(Debit)

Queries:

a) Find the details of customers whose minimum balance is 1 lakhs.
b) Find the details of amount credited within the period 25-6-2022 to 28-6-2022.
c) Write a trigger on TRANSACTION table to calculate current balance of account on which transaction is made.

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Internal Practical Examination
CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max Marks : 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

ACCOUNT (accno, open_date, acctype, balance)
TRANSACTION (trans id, trans_date, accno, trans_type, amount)
CUSTOMER (cust_id, name, address, accno)

Integrity Constraints:

- The values of any attributes should not be null.
- acctype value should be P(Personal) or J(Joint).
- Accno should be less than 4 digits.
- Trans_type should be C(Credit) Or D(Debit)

Queries:

a) Find the details of customers who have personal accounts & balance is less than 3 lakhs.
b) Find the details of customers who have joint accounts.
c) Write a procedure on ACCOUNT & TRANSACTION table such that as user enters new transaction the balance is, updated in ACCOUNT table.

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Internal Practical Examination
CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max Marks : 20**

.Create database using following schema. Apply given integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

ACCOUNT (accno, open_date, acctype, balance)
TRANSACTION (trans_id, trans_date, accno, trans_type, amount)
CUSTOMER (cust_id, name, address, accno)

Integrity Constraints:

- The values of any attributes should not be null.
- acctype value should be P(Personal) or J(Joint):
- Accno should be less than 4 digits.
- Transtype should be C(Credit) or D(Debit)

Queries:

a) Find the details of all transactions performed on account number 103. Also specify the name/names of cutomers who owns that account.
b) Find the details of amount credited within the period 15 -3-2022 to 18 -3 -2022.
c) Write a trigger on insert on ACCOUNT table such that the account which is having balance less than or equal to 800 should not be debited.

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Internal Practical Examination
CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max Marks : 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL.(Fill up database with at least 10 records in each table).

ACCOUNT (accno, open date, acctype, bal)
TRANSACTION (trans_id, trans_ date, accno, trans_type, amount)
CUSTOMER (cust_id, name, address, accno)

Integrity Constraints:

- The values of any attributes should not be null.
- acctype value should be P(Personal) or J(Joint).
- Accno should be less than 4 digits.
- Trans_type should be C(Credit) or D(Debit)

Queries:

a) Find the details of customers who have opened the accounts within the period 25-3-2022 to 28-3-2022.

b) Find the details of customers who have joint accounts & balance is less than 3 lakhs.

c) Write a cursor on CUSTOMER table to fetch the last row.

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Internal Practical Examination
CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max Marks:20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

BOOKMASTER (bid, title, author, price)
STUDENTMASTER (stud_enrollno, sname, class, dept)
ACCESSIONTABLE (bid, accession_no, avail)
ISSUETABLE(issueid, accession_no, stud_enrollno, issuedate, duedate, ret_date, bid)

Integrity Constraints:

- The values of any attributes should not be null.
- Avail should be T (if book is not issue) or F (if book is issue)

Queries:

a) Find the name of books which is issued maximum times.
b) Find the detail information of books that are issued by computer department students.
c) Write a procedure to calculate the fines for the books which are not return on or before due date.
no.of days = (ret_date - due_date)
fine = no.of days * 10

RCPET's IMRD, Shirpur
Internal Practical Examination
CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max Marks:20**

.Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

BOOKMASTER (bid, title, author, price)
STUDENTMASTER (stud_enrollno, sname, class, dept)
ACCESSIONTABLE (bid, accession_no, avail)
ISSUETABLE(issueid, accession_no, stud_enrollno, issuedate, duedate, ret_date, bid)

Integrity Constraints:

- The values of any attributes should not be null.
- Avail should be T (if book is not issue) or F (if book is issue)

Queries:

a) Find the detail information of the students who have issued books Between two given dates.
b) Create a view that display all the accession information for a book having bid = 100
c) Write a cursor to fetch first record from view in (b).

RCPET's IMRD, Shirpur
Internal Practical Examination
CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max marks : 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL.(Fill up database with at least 10 records for each, table).

BOOKMASTER (bid, title, author, price)
STUDENTMASTER (stud_enrollno, sname, class, dept)
ACCESSIONTABLE (bid, accession_no, avail)
ISSUETABLE(issueid, accession_no, stud_enrollno, issuedate, duedate, ret_date, bid)

Integrity Constraints:

- The values of any attributes should not be null.
- Avail should be T (if book is not issue) or F (if book is issue)

Queries:

a) Write a procedure for giving the detail information of books available in the library.
b) Find the number of books issued by each student.
c) Find the number of books available in the library & written by "E.Navathe".

RCPET's IMRD, Shirpur

Internal Practical Examination

CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max marks:20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

ACCOUNT (accno, open date, acctype, bal)
TRANSACTION (trans_id, trans_ date, accno, trans_type, amount)
CUSTOMER (cust_id, name, address, accno)

Integrity Constraints:

- The values of any attributes should not be null.
- acctype value should be P(Personal) or J(Joint).
- Accno should be less than 3 digits.
- Trans_type should be C(Credit) or D(Debit)

Queries:

a) Find the details of customers who have opened the accounts within the period 25-3-2018 to 28-3-2018.

b) Find the details of customers who have joint accounts & balance is less than 2 lakhs.

c) Write a cursor on CUSTOMER table to fetch the last row.

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Internal Practical Examination
CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max marks: 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

PRODUCT (Maker, Modelno, Type)
PC (Modelno, Speed, RAM, HD, CD, Price)
LAPTOP (Modelno, Speed, RAM, HD, Price)
PRINTER (Modelno, Color, Type, Price)

Details regarding Schemas

- PC relation contains model no. of PC, its speed in MHz, RAM in MB, HD size in GB, Speed of CD reader, and price.
- The value for Maker in Product table can be IBM, Compaq, etc.
- PRINTER relation contains model no., value of Color should be T(if printer is color) or F (if printer is black & white), type(laser, ink-jet, dot-matrix or dry), and price.

Integrity Constraints:

- The values of any attributes should not be null.
- Product Type should one of these (PC, Laptop or Printer)

Queries:

a) Find the manufacturers of color printers.
b) Find the laptops whose speed is slower than that of any PC.
c) Write a trigger on PC & LAPTOP table such that the hard disk size should be greater than 20 GB

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Internal Practical Examination

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Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL.(Fill up database with at least 10 records in each table).

PRODUCT (Maker, Modelno, Type)
PC (Modelno, Speed, RAM, HD, CD, Price)
LAPTOP (Modelno, Speed, RAM, HD, Price)
PRINTER (Modelno, Color, Type, Price)

Details regarding Schemes

- PC relation contains model no. of PC, its speed in MHz, RAM in MB, HD size in GB, Speed of CD reader, and price.
- The value for Maker in Product table can be IBM, Compaq, etc.
- PRINTER relation contains model no., value of Color should be T(if printer is color) or F (if printer is black & white), type(laser, ink-jet, dot- matrix or dry), and price.

Integrity Constraints:

- The values of any attributes should not be null.
- Product Type should one of these (PC, Laptop or Printer)

Queries:

a. Find the manufacturers of color printers.
b. Find the laptops whose speed is slower than that of any PC.
c. Write a cursor on PRINTER table to fetch last row.

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Internal Practical Examination

CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max marks: 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

PRODUCT (Maker, Modelno, Type)
PC (Modelno, Speed, RAM, HD, CD, Price)
LAPTOP (Modelno, Speed, RAM, HD, Price)
PRINTER (Modelno, Color, Type, Price)

Details regarding Schemas

- PC relation contains model no. of PC, its speed in MHz, RAM in MB, HD size in GB, Speed of CD reader, and price.
- The value for Maker in Product table can be IBM, Compaq, etc.
- PRINTER relation contains model no.,value of Color should be T(if printer is color) or F (if printer is black & white), type(laser, ink-jet, dot- matrix or dry), and price.

Integrity Constraints:

- The values of any attributes should not be null.
- Product Type should one of these (PC, Laptop or Printer).

Queries:

a) Find the different types of printers produced by Epson.
b) Find those hard disk sizes which occur in two or more PC's.
c) Write a trigger on LAPTOP table such that the minimum speed should be 250MHz.

RCPET's IMRD, Shirpur

Internal Practical Examination

CA-LAB -I (NEW): Lab on DBMS

Duration 2:00 Hrs. **Max Marks: 20**

Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

PRODUCT (Maker, Modelno, Type)
PC (Modelno, Speed, RAM, HD, CD, Price)
LAPTOP (Modelno, Speed, RAM, HD, Price)
PRINTER (Modelno, Color, Type, Price)

Details regarding Schemas

- PC relation contains model no. of PC, its speed in MHz, RAM in MB, HD size in GB, Speed of CD reader, and price.
- The value for Maker in Product table can be IBM, Compaq, etc.
- PRINTER relation contains model no., value of Color should be T(if printer is color) or F (if printer is black & white), type(laser, ink-jet, dot- matrix or dry), and price.

Integrity Constraints:

- The values of any attributes should not be null.
- Product Type should one of these (PC, Laptop or Printer)

Queries:

a) Find the different types of printers produced by Epson.
b) Find those hard disk sizes which occur in two or more PC's.
c)Demonstrate the use of cursor using PRODUCT table.

RCPET's IMRD, Shirpur

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CA-LAB -I (NEW): Lab on DBMS

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Create database using following schema. Apply given Integrity Constraints and answer the following queries using SQL. (Fill up database with at least 10 records in each table).

DOCTOR (Did, Dname, Daddress, qualification)
PATIENTMASTER (Pcode, Pname, Padd, age, gender, bloodgroup, Did)
ADMITTEDPATIENT (Pcode, Entry_date, Discharge_date, wardno, disease)

Integrity Constraints:

- The values of any attributes should not be null.
- Gender value should be M (male) or F (female).
- Ward no should be less than

Queries:

a) Find the details of patient who are admitted within the period 03/03/22 to 25/03/22.
b) Find the names of doctors who are treating TB patients.
c) Write a procedure on ADMITTEDPATIENT table such as to calculate the bill of all patients currently admitted in the hospital.
(bill = no _ of_ days * 800)