

GOA VIDYAPRASARAK MANDAL'S

GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS PONDA - GOA

B.C.A. CBCS (SEMESTER- III) PRACTICAL Examination November 2023

DATABASE MANagements SYSTEMS LABORATORY

Duration: 2 hours

Marks: 30

SET - A

Q1. Answer the following

(1.5 X 5 = 7.5)

a) Write a query to create a database "company" and table "Employee" as given below

EMP NO	EMP_NAME	DEPT	SALARY	DOJ	BRANCH
E101	Amrita	HR	1500000	12-05-2018	Mumbai
E102	Amit	Electrical	200000	27-08-1998	Delhi
E103	Vijay	Management	600000	15-07-1887	Goa
E104	Suresh	IT	500000	16-02-1989	Bangalore
E105	Ramesh	Civil	300000	20-09-2000	Pune

- b) Display all the fields of employee table
- c) Retrieve employee number and their salary
- d) Retrieve average salary of all employee
- e) Retrieve number of employees.

Q.2 Create the following tables as given below:

(7.5)

Customer_id	Cust_name	City	grade	salesman_id
3001	James	New York	100	5001
3002	Nail	New York	200	5001
3003	Pit	London	200	5002
3004	Mac	Paris	300	5003
3005	Paul	Rome	300	5004

Salesman_id	name	City	Commission
5001	Nick	New York	0.15
5002	Brad	London	0.13
5003	Graham	Paris	0.11
5004	Julian	Rome	0.12

- a) Count the number of customers whose grade > 200
- b) write a SQL query to find the salesperson and customer who reside in the same city  
Return Salesman, cust\_name and city.
- c) write a SQL query to find the salesperson(s) and the customer(s) he represents. Return  
Customer Name, city, Salesman, commission.
- d) write a SQL query to display the customer name, customer city, grade, salesman, salesman  
city. The results should be sorted by ascending customer\_id.

Q3. E-Journal

(5)

Q4. Viva

(10)

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DATABASE MANagements SYSTEMS LABORATORY

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Marks: 30

SET - B

Q1. Answer the following

(1.5 X 5 = 7.5)

a) Write a query to create a database "Studentdb" and table "student" as given below

S_id	S_name	S_age	email_id	Phonenumber	Course	Marks
1	Ram	20	ram@gmail.com	7848964552	CS	90
2	Ramita	18	ramita@gmail.com	9885865899	CS	78
3	Siya	19	Siya@gmail.com	7845124788	CS	85
4	Simran	21	simran@gmail.com	8754896995	CS	72
5	Omkar	22	omi@gmail.com	7893646825	CS	96

- b) Display all the fields of student table
- c) Retrieve student name whose age > 19
- d) Retrieve average marks of all students
- e) Retrieve number of students.

Q.2 Create the following tables as given below:

(7.5)

Cust_id	C_name	address	city	country	postal code	orderid
101	Santosh	ponda	goa	india	403401	1
102	shyam	ponda	goa	india	403401	2
103	reema	panjim	goa	india	408402	3
104	ramesh	mapusa	goa	india	409406	4
105	lata	vasco	goa	india	407401	5

orderid	order_date	order_status	cust_id
1	04-08-2022	shipped	101
2	20-08-2023	shipped	102
3	18-07-2023	shipped	103
4	01-05-2022	shipped	104
5	12-10-2023	pending	105

- a) Write a SQL query to find the c\_name with orderid = 2.
- b) Write a SQL query to find the cust\_id and order\_status as "shipped".  
Return orderid, cust\_name and city.
- c) Write a SQL query to find the orderid and group by address.
- d) Write a SQL query to delete the record with order\_id = 5.

Q3. E-Journal

(5)

Q4. Viva

(10)

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DATABASE MANagements SYSTEMS LABORATORY

Duration: 2 hours

Marks: 30

SET - C

Q1. Answer the following

(1.5 X 5 = 7.5)

a) Write a query to create a database "Theatredb" and table "Theatre\_details" as given below

T_id	T_name	city	capacity	no_of_screens	phonenumber
1	Inox	Margao	100	2	8996234175
2	Osia	Margao	100	2	9857645631
3	cityplex	Ponda	70	1	7854965888
4	Inox	Panjim	150	2	8749564785
5	citypride	Vasco	100	2	9763248596

b) Write a query to find the theatres located in margao city and display the T\_name, City & capacity.

c) Retrieve the details of theatre whose capacity < 2.

d) Display the theatre details with max seating capacity.

e) Alter table Theatredb to change the name of capacity to seat\_capacity.

Q.2 Create the following tables as given below:

(7.5)

T_id	T_name	Qualification	Course-Taught	Course_id
1	Santoshi	B.E	COA	CS_101
2	Suhas	B.sc	BM	CS_102
3	Prashant	M.sc	DMF	CS_111
4	Priya	M.E	Data Science	CS_112
5	Priyanka	M.tech	English	CS_113

Couse_id	C_name	C_credit
CS_101	COA	4
CS_102	BM	2
CS_111	DMF	2
CS_112	Data Science	4
CS_113	English	2

a) Count the number of courses whose credit > 2

b) Write a SQL query to find the T\_name and C\_name teaching a specific course. Return T\_id, T\_name, C\_name & C\_credit.

c) Write a SQL query to create a view of teacher table and add salary column.

d) Write a SQL query to initiate a transaction & update Course\_id = CS\_100 for T\_id =1.

Q3. E-Journal

(5)

Q4. Viva

(10)

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**DATABASE MANagements SYSTEMS LABORATORY**

Duration: 2 hours

Marks: 30

SET - D

Q1. Answer the following

(1.5 X 5 = 7.5)

a) Write a query to create a database "Payment" and table "payment\_details" as given below

Cust_id	C_name	Product	mode_of_payment	amount	date_of_payment
111	Sumit	Laptop	Phonepay	120000	16-09-2022
112	Siya	Mobile	COD	60000	08-10-2023
113	Ramita	Ipad	Phonepay	80000	15-04-2022
114	Riya	Earphones	Phonepay	10000	20-06-2021
115	Pratham	Laptop	COD	65000	07-05-2023

- b) Write a query to find sum of amount and group by mode\_of\_payment.
- c) Write a query to show the product between 60000 and 100000.
- d) Write a query to show the distinct products available and arrange them in descending order.
- e) Write a query to change the date\_of\_payment of cust\_id = 111 to 20-02-2020.

Q.2 Create the following tables as given below:

(7.5)

F_id	F_name	Qualification	Couse_code	dep_id
1	Sumit	B.E	BCA_01	CS_01
2	Supriya	B.E	BCA_02	CS_02
3	Ramesh	M.E	BCA_03	CS_03
4	Suresh	M.E	BCA_04	CS_04
5	Santosh	M.sc	BCA_05	CS_05

S_id	S_name	Branch	Couse_code	Marks
101	Pooja	CS	BCA_01	60
102	Priya	CS	BCA_02	45
103	Punit	CS	BCA_03	80
104	Suresh	CS	BCA_04	76
105	Arun	CS	BCA_05	90

- a) Write a SQL query to return the marks <=60.
- b) Write a SQL query to perform left join and display F\_name, S\_name, Course\_code and Marks in ascending order.
- c) Write a SQL query to initiate a transaction to delete a record from faculty table and rollback.
- d) Write a SQL query to insert a new record in Student table and commit the changes.

Q3. E-Journal

(5)

Q4. Viva

(10)