

IRC_DBMS_DML_DC

- Test Summary
- No. of Sections: 1
 - No. of Questions: 5
 - Total Duration: 30 min

Section 1 - DM-DC

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- No. of Questions: 5
 - Duration: 30 min

Additional Instructions:
None

Q1. The stock table contains following fields
id, pur_date ,qty and price.

Update the records as below.
Reduce the price 10% where the qty is greater than or equal to 100 and purchase date in 2022.
And write a query to select all fields

Output Format

Sampel output

id	pur_date	QTY	price
101	2022-10-10	100	70

Sample Input

Sample Output

id	pur_date	QTY	price
101	2022-10-10	100	63
102	2022-10-11	200	72.45
103	2022-11-10	250	80.01

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q2. The employees table contains following fields
id ,name , dept, experience salary
Update records as below.
Give increment 25% to the employees working sales department and salary less than or equal to 10000.

Output Format

Sample Output

empid	name	dept	experience	salary
101	Anand	production	5	8000

Sample Input

Sample Output

empid	name	dept	experience	salary
101	Anand	production	5	8000
102	Babu	purchase	5	9000
103	Chand	sales	5	6250

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q3. Table Name : hostel
Fields : sid, sname, , roomno , city , age
Change the room no to 10 who have name starting with 'v' and age is greater than or equal to 20 or city name is 'madurai'

Output Format

Sample output

sid	sname	roomno	city	age
10	raja kumar	1	madurai	19

Sample Input

Sample Output

sid	sname	roomno	city	age
10	raja kumar	10	madurai	19
10	mani kandan	10	madurai	20
10	vijsya kumar	10	chennai	22

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q4. Write a query will add a new column called "department" to the "employees" table with a default value of "sales". It will also add a check constraint that ensures that only the values 'sales', 'marketing', or 'engineering' can be inserted into the "department" column.
Table Name: employees
Field names: eid , ename

Output Format

Sample output

eid	ename	department
10	raja	sales

Sample Input

Sample Output

eid	ename	department
10	raja	sales
20	roja	sales
30	anna	sales

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q5. Table name: Furnitures
Attributes
Furniture_ID
Furniture_Name
Furniture_Type
Manufacturer
Quantity
Design_No

Write a query to add new column Price , modify Manufacturer field characters size maximum 35 character and check price 1500 to 20000.

Please find the table details below

Field	Type	Null	Key	Default	Extra
Furniture_ID	varchar(5)	NO	PRI	NULL	
Furniture_Name	varchar(25)	NO	NULL		
Furniture_Type	varchar(20)	NO	NULL		
Manufacturer	varchar(25)	NO	NULL		
Quantity	int(11)	YES	NULL		
Design_No	int(11)	YES	NULL		

Sample Input

Sample Output

Field	Type	Null	Key	Default	Extra
Furniture_ID	varchar(5)	NO	PRI		NULL
Furniture_Name	varchar(25)	NO			NULL
Furniture_Type	varchar(20)	NO			NULL

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Answer Key & Solution

Q1

Section 1 - DM-DC

Test Case

Input

Output

id	pur_date	QTY	price
101	2022-10-10	100	63
102	2022-10-11	200	72.45
103	2022-11-10	250	89.01

Weightage - 100

Sample Input

Sample Output

id	pur_date	QTY	price
101	2022-10-10	100	63
102	2022-10-11	200	72.45
103	2022-11-10	250	89.01

Solution

```
UPDATE stock
SET price = price- (price * .10)
WHERE qty >= 100
AND pur_date < '2023-01-01' ;
select * from stock;
```

Q2

Test Case

Input

Output

empid	name	dept	experience	salary
101	Anand	production	5	8000
102	Babu	purchase	5	9000
103	Chand	sales	5	6250

Weightage - 100

Sample Input

Sample Output

empid	name	dept	experience	salary
101	Anand	production	5	8000
102	Babu	purchase	5	9000
103	Chand	sales	5	6250

Solution

```
update employees
set salary =salary + (salary * 0.25) where dept='sales' and salary <= 10000;
```

Footer

```
select * from employees;
```

Q3

Test Case

Input

Output

sid	sname	roomno	city	age
10	raja kumar	10	madurai	19
10	mani kandan	10	madurai	20
10	vijaya kumar	10	chennai	22

Weightage - 100

Sample Input

Sample Output

sid	sname	roomno	city	age
10	raja kumar	10	madurai	19
10	mani kandan	10	madurai	20
10	vijaya kumar	10	chennai	22

Solution

```
update hostel
set roomno=10 where sname like 'v%' and age >= 20 or city ='madurai';
```

Footer

```
select * from hostel;
```

Q4

Test Case

Input

Output

eid	ename	department
10	raja	sales
20	roja	sales
30	iana	sales

Weightage - 100

Sample Input

Sample Output

eid	ename	department
10	raja	sales
20	roja	sales
30	iana	sales

Solution

```
ALTER TABLE employees
ADD COLUMN department text DEFAULT 'sales' CHECK (department IN ('sales', 'marketing', 'engineering'));
```

Footer

```
select * from employees;
```

Q5

Test Case

Input

Output

Field	Type	Null	Key	Default	Extra
Furniture_ID	varchar(5)	NO		PRI	NULL
Furniture_Name	varchar(25)	NO			NULL
Furniture_Type	varchar(20)	NO			NULL

Weightage - 100

Sample Input

Sample Output

Field	Type	Null	Key	Default	Extra
Furniture_ID	varchar(5)	NO		PRI	NULL
Furniture_Name	varchar(25)	NO			NULL
Furniture_Type	varchar(20)	NO			NULL

Solution

```
ALTER TABLE Furnitures ADD (Price float(7,2)), MODIFY Manufacturer VARCHAR(35) NOT NULL,ADD CONSTRAINT ch3 CHECK (Price BETWEEN 1500 AND 2000)
desc Furnitures;
```