DELHI SCHOOL OF BUSINESS

By Vivekananda Institute of Professional Studies - TC

Delhi School of Business

PGDM Program

TERM – III (Batch: 2023-25)

END-TERM EXAMINATIONS

April 2024

Course Name	Management Information Systems and Enterprise Resource Planning	Course Code	MIS & ERP
Duration	2.5 Hours	Max. Marks	40

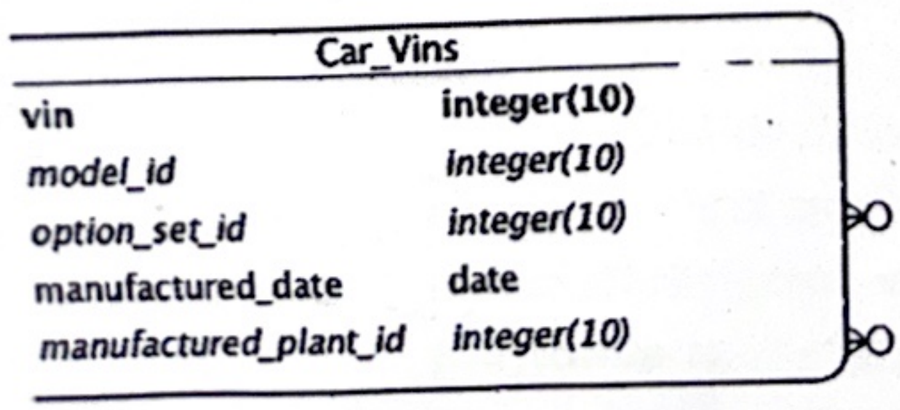
Instructions:

1. This paper contains 2 sections.
2. Answer any two questions from Section 1.
3. Answer any combination of questions totalling up to 20 marks in Section 2.
4. Any form of cheating is strictly prohibited.
5. You may utilize the PDFs and PowerPoint presentations shared during classes, but using any other material is not permitted.
6. Include a screenshot **clearly displaying the complete query and its output** in a Word file.
7. For Question 2 in Section 1, include a screenshot of the **'Database Structure'** tab with all tables fully expanded. Additional screenshots can be included if necessary.
8. All questions to be answered in word file. **Rename** the file as **'FirstName_LastName_Section.docx'**

Section 1: **(20 Marks)**

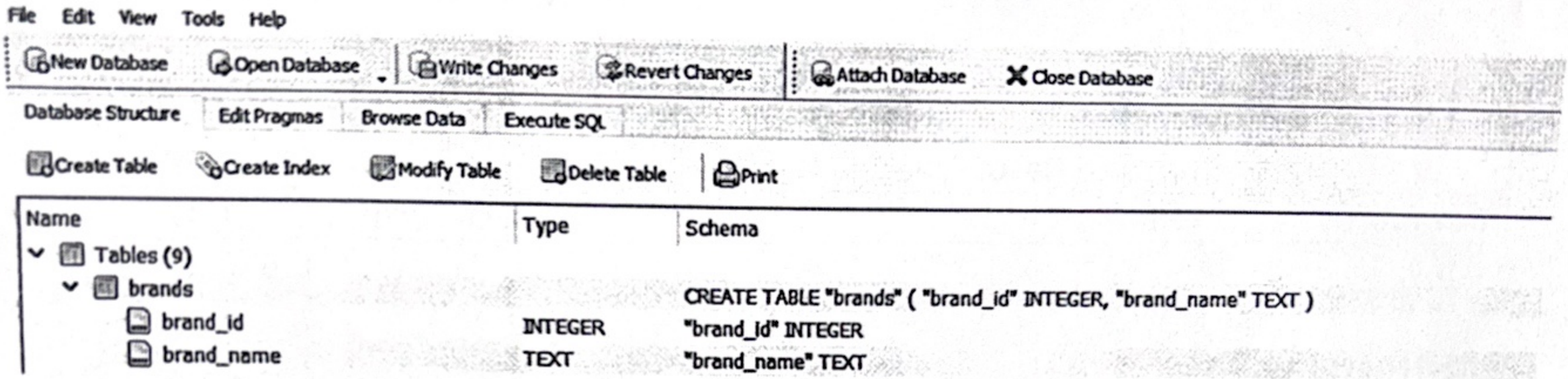
Q.1 **(10 Marks) CO2,3**

Draw a detailed entity relationship diagram of an Hospital Enterprise. The diagram should clearly show various entities, their attributes, relationship among entities and any constraint over attributes. Entities should be created in the way as shown below. Higher marks will be given to more detailed diagram.



Q.2 **(10 Marks) CO2**

Create tables (with no records) for all the entities identified in the Q1. (Output similar to the following screenshot should be pasted in the word file.)



Q3. **(10 Marks) CO2,3**

Discuss normal forms in database management systems, their types and their relative advantages and disadvantages.

Q4. **(10 Marks) CO2,3**

Write a short note on various types of constraints in SQL along with relevant examples.

Section 2: **(20 Marks)**

Q.4 **(20 Marks) CO2**

Consider the given ER diagram, and answer the following questions

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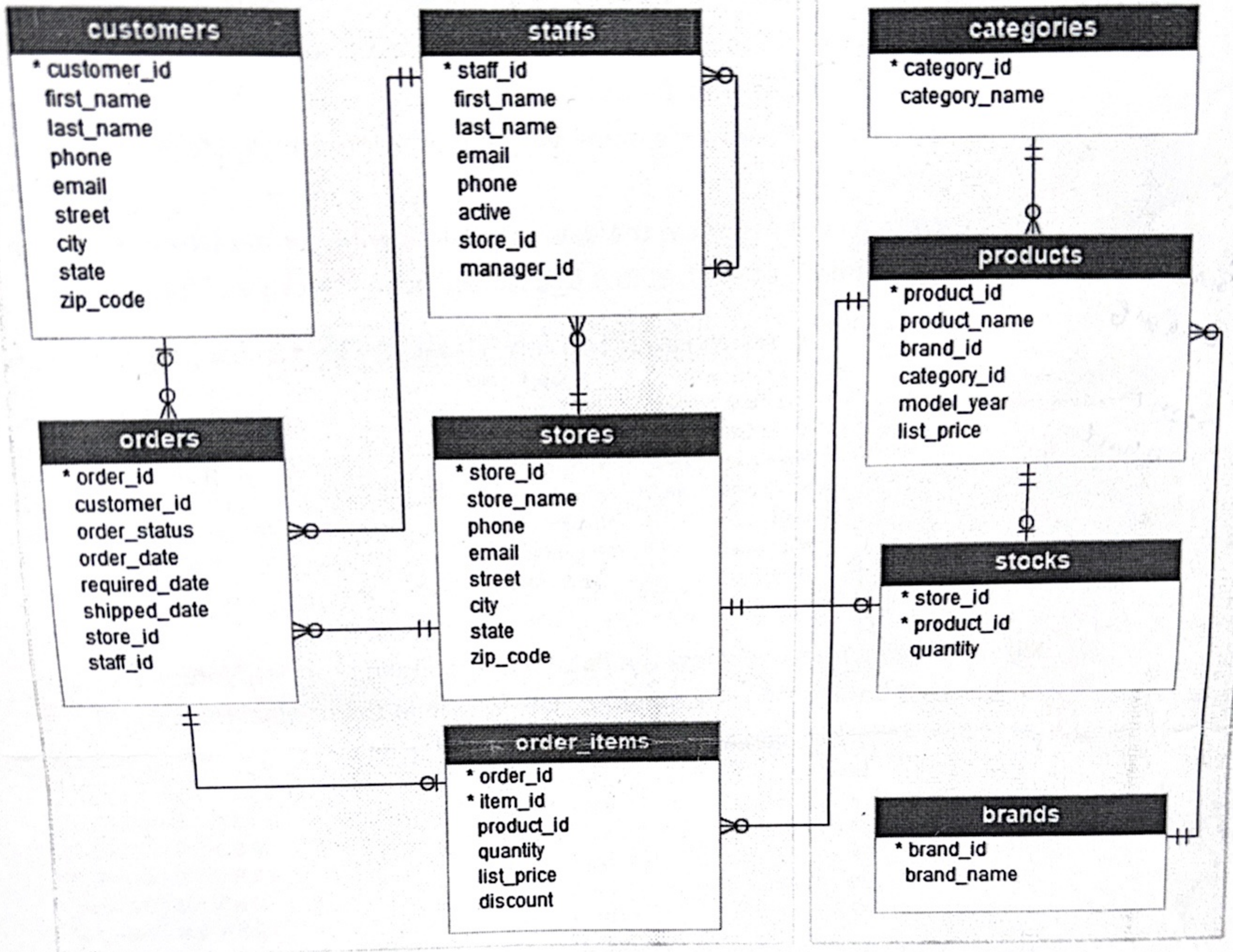
Sales

Production



i) Find the average of total price (quantity * list price) [1 Mark]

ii) Locate the orders with total price (quantity * list price) greater than the average total price (identified in (i)). (All columns of order_items table, total price). [2]

iii) How many customers are from each state, sort the data on number of customers. (State and number of customers) [1]

iv) Details of all those customer residing in streets contain 'stonybrook'. [1]

v) Display the store name and address that has the most quantity of products in stock. (Store name, store address and quantity of products) [3]

vi) Display a list of all sales orders processed by staffer 'Layla'. (order details and Employee First and last name) [3]

vii) Name all the customers who live in New York and provided a phone number. (Customer Name, State, and phone number)[2]

viii) Display the names of the customers who ordered from Baldwin Bikes and Santa Cruz Bikes stores. (Customer Name, Store Names) [3]

ix) Display the name of the ~~item~~Product_id whose discount is more than 0.05 (~~Item~~Product Name, ~~item~~Product_id, and discount) [2]

x) List all the customer's name who have ordered from store_id 2. (Name and Store id) [3]

xi) Write a query to show the data in the following format (Note: First Name and Last Name is of staff, Shipped_date will be in the original format) [3]

	FIRST_NAME	LAST_NAME	CUSTOMER_ID	SHIPPED_DATE
1	Mireya	Copeland	532	17-01-05
2	Marcelene	Boyer	512	17-01-05
3	Venita	Daniel	1302	17-01-06
4	Marcelene	Boyer	550	17-01-07
5	Marcelene	Boyer	1093	17-01-07
6	Genna	Serrano	673	17-01-08
7	Venita	Daniel	847	17-01-10
8	Genna	Serrano	901	17-01-11

xii) Write a query to show the data in the following format(Note: First Name and Last Name is of staff, Shipped_date will be in the original format) [3]

	FIRST_NAME	LAST_NAME	CUSTOMER_ID	SHIPPED_DATE
1	Fabiola	Jackson	(null)	(null)
2	Mireya	Copeland	1214	18-01-17
3	Mireya	Copeland	253	18-01-24
4	Mireya	Copeland	1186	18-02-03
5	Mireya	Copeland	983	18-02-04
6	Mireya	Copeland	1254	18-02-11

xiii) Who are the top-performing employees (Name and Total Sales Amount [quantity * list price]) [4]

xiv) Who are our top 10 customers based on total purchase amount ([quantity * list price]) and where are they from (Name, City, State, and total purchase amount)? [4]

xv) Write a query to show the data in the following format. Hint: Use (first_name ||' ' ||last_name) to get full name. [4]

	Customer_Name	ORDER_ID	CUSTOMER_ID	ORDER_DATE	STAFF_NAME
1	BrigidSharp	1348	1214	18-01-15	MireyaCopeland
2	MauriceNorton	1358	253	18-01-21	MireyaCopeland
3	KieshaBond	1376	1186	18-02-01	MireyaCopeland
4	MargueriteBerger	1378	983	18-02-02	MireyaCopeland
5	DungReid	1386	1254	18-02-09	MireyaCopeland
6	MonicaSears	1411	109	18-03-01	MireyaCopeland
7	RayfordSimon	1417	300	18-03-04	MireyaCopeland