

Question #1 Descriptive SQL Question

8 Marks

Арр	Category	Rating	Reviews Size	Insta	lls	Type Pr	rice Content Rating	Genres	Last Updat	ed	Current Ver	Android Ver
Photo Editor & Candy Camera & Gri	Id EART_AND_DESIGN	4.1	159 198	10,00	10+	Free	0 Everyone	Art & Design	January 7, 2	2018	1.0.0	4.0.3 and up
Coloring book moana	ART_AND_DESIGN	3.9	967 141	500,0	100+	Free	0 Everyone	Art & Design;	F January 15,	2018	2.0.0	4.0.3 and up
U Launcher Lite 倓 FREE Live Cool T	The ART_AND_DESIGN	4.7	87510 8.7	A 5,000	+000,	Free	0 Everyone	Art & Design	August 1, 2	018	1.2.4	4.0.3 and up
Sketch - Draw & Paint	ART_AND_DESIGN		215644 25N		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Free	0 Teen	Art & Design			Varies with	devi 4.2 and up
Pixel Draw - Number Art Coloring B			967 2.8			Free	0 Everyone	Art & Design;				1.1 4.4 and up
Paper flowers instructions	ART_AND_DESIGN		167 5.6			Free	0 Everyone	Art & Design				1 2.3 and up
Smoke Effect Photo Maker - Smoke			178 198			Free	0 Everyone	Art & Design				1.1 4.0.3 and up
Infinite Painter	ART_AND_DESIGN		36815 291		,	Free	0 Everyone	Art & Design			6.1.61.1	4.2 and up
Garden Coloring Book Kids Paint Free - Drawing Fun	ART_AND_DESIGN ART_AND_DESIGN	-	13791 33N		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Free	0 Everyone 0 Everyone	Art & Design Art & Design;			2.9.2	3.0 and up 2.8 4.0.3 and up
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An Analyst who is performing analysis on the session data of an App has noticed that few of the sessions last less than 5 seconds. He would like to perform analysis on such cohorts. Can you help him gather the data of the past 6 months needed for analysis.

[Note: Write a query which met/resolve the business requirement]

select user_name from User_Session_Data where login_duration < 0.05 and session_in_time between datesub(current_date(), interval 6 month) and current_date();

Question #2 Descriptive SQL Question

1 Marks

Which is the database functionality without which a multi-user environment could not work?

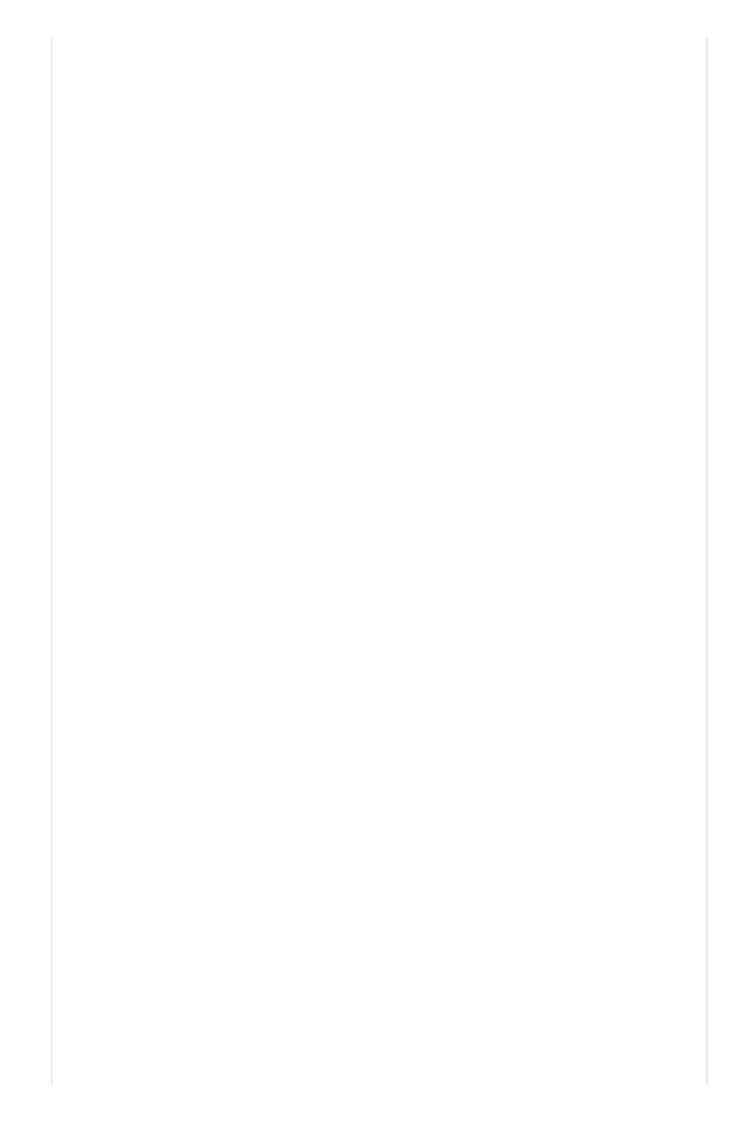
Question #3 Descriptive SQL Question 2 Marks How to query hierarchical structured data? Specify three main parts explaining its importance. Many types of data are best represented as a hierarchy, such as a tree. For Example: employees are usually organized in a hierarchy, with a company President at the top of the hierarchy. You can store hierarchical data in: 1 A hierarchy or tables	mainframes are multi users systems, but most personal computers and workstations are not.	
A single table with one column representing the hierarchy.	How to query hierarchical structured data? Specify three main parts explaining its importance. Many types of data are best represented as a hierarchy, such as a tree. For Example: employees are usually organized in a hierarchy, with a company President at the top of the hierarchy. You can store hierarchical data in: 1. A hierarchy or tables.	ırks

2. CTE(common table expressions) :-commonly used with Microsoft SQL Server.

3. CONNECT BY:- widely available on Oracle database SQL.

3. Support for abitary insertions and deletions.

Three main parts are:1. Extremely compact,
2. Comparison is in depth.



Question #4 Descriptive SQL Question

2 Marks

Consider a scenario where you need to combine two tables, such that the resultant data should be displayed as new rows with distinct rows being displayed, you can use either JOIN OR UNION. Which one will you use? Justify your answer along with examples.

select column_name from table1
UNION
select column_name from table_2;

- UNION
- It removes duplicate value from the two different table and join them.
- UNION is a set operator which is use for FULL-JOIN and remove the duplicate values.

Question #5 Executable SQL

3 Marks

Please Consider the below schemas/tables

marks

field	Туре
Student_id	int
Marks	int

Student_id	Marks
11	78
7	80
19	91
14	40
6	69

Consider the following table marks which is part of a school database containing the following columns

Student_id: Storing the id of the student
Course: Storing the name of the course

Marks : Storing the marks obtained by the student in a particular course

WAQ to determine the ids of the students having average marks higher than the overall average. Order the results by student id in ascending order.

(Hint: Spread is a statistical measure which is the difference between highest and lowest values)

Question #6 Executable SQL

3 Marks

Please Consider the below schemas/tables

orderdetails

field	Туре
OrderNumber	int
productcode	varchar(225)
quantityOrdered	int
priceEach	decimal(10,2)
orderLineNumber	int

OrderNumber	productcode	quantityOrdered	priceEach	orderLineNumber
10100	S18_1749	30	136.0	3
10100	S18_2248	50	55.09	2
10100	S18_4409	22	75.46	4
10100	S24_3969	49	35.29	1

10101 S18_2325 25 108.06 4

There are some orders that have multiple order amounts corresponding to the same order. Write a query to retrieve the individual and total order amounts for each order along with the order numbers. Order the values in the increasing order of the order numbers. For similar order numbers, arrange the individual order amounts in the decreasing order.

select *, sum(tamount) over(partition by ordernumber order by tamount desc) as amount from (select ordernumber, quantityOrdered*priceEach as tamount from orderdetails) a;

Affected_rows: 10

ordernumber	tamount	amount
10100	4080.0	4080.0
10100	2754.5	6834.5
10100	1729.21	8563.71
10100	1660.12	10223.83
10101	4343.56	4343.56
10101	2701.5	7045.06
10101	2040.1	9085.16

10101	1463.85	10549.01
10102	3726.45	3726.45
10102	1768.33	5494.78

Question #7 Executable SQL Please Consider the below schemas/tables 5 Marks

product

field	Туре
Product_id	char(3)
Product_name	varchar(24)
Price	int
Product_Category	varchar(45)

Product_id	Product_name	Price	Product_Category
P01	iphone 11	64000	Mobile
P02	ipad pro	81000	Tablet
P03	macbook air	75000	Laptop
P04	Sony 43 inch	55000	TV
P05	Samsung M31S	22000	Mobile

WAQ to returns all products and the average standard cost based on the product category:.

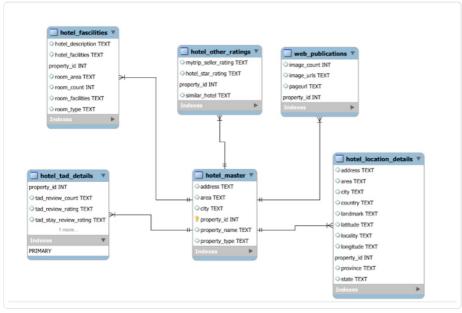
select product_id, product_name, avg(abs(price)) over(partition by product_category) from product;

Affected rows: 9

product_id	product_name	avg(abs(price)) over(partition by product_category)
P08	logi Keyboard	8500.0
P09	Apple Pencil	8500.0
P03	macbook air	75000.0
P01	iphone 11	31666.6667
P05	Samsung M31S	31666.6667
P06	Samsung A01	31666.6667
P02	ipad pro	81000.0
P04	Sony 43 inch	50000.0
P07	Samsung 43 inch	50000.0

Question #8 Descriptive SQL Question

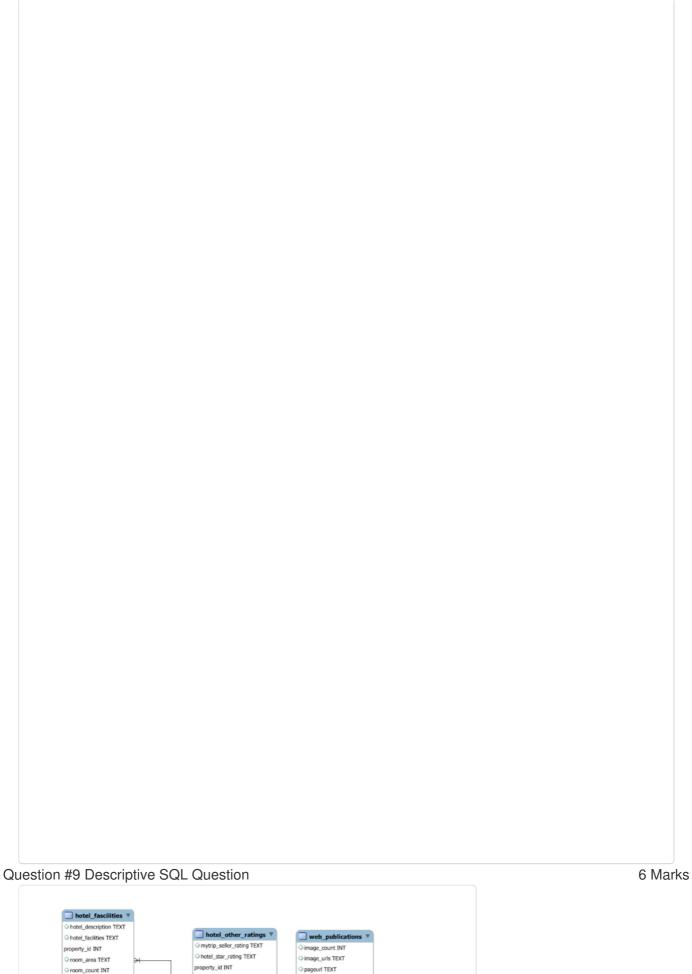
8 Marks



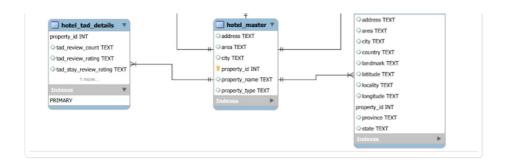
What is the average ratings for the location for the hotels in Kolkata.

[Note: Write a query which met/resolve the business requirement]

select hld.property_id, avg(mytrip_seller_rating) over(partition by hld.city) msr, avg(hotel_star_rating) over(partition by hld.city) hsr, avg(tad_review_rating) over(partiton by hld.city) trr from hotel_other_rating hor join hotel_location_details as hld on hor.property_id = hld.property_id join hotel_tad_details htd on hld.property_id = htd.property_id where hld.city = 'Kolkata';



oroom_area TEXT pageurl TEXT similar_hotel TEXT property_id INT oroom_facilities TEXT oroom_type TEXT
Indexes ☐ hotel_location_details ▼



Seller ratings are an automated extension type that showcase advertisers with high ratings. Seller ratings, which appear below text ads, help people find businesses that offer quality services. Seller ratings can help advertisers improve ad performance and earn more qualified leads. For every city, find out hotels with high seller ratings.

[Note: Write a query which met/resolve the business requirement]

Question #10 Descriptive SQL Question

8 Marks

Арр	Category	Rating	Reviews	Size	Installs	Type Pric	e Content Rating	Genres	Last Update	ed	Current Ver	Android Ver
Photo Editor & Candy Camera & Grid	EART_AND_DESIGN	4.1	159	19M	10,000+	Free	0 Everyone	Art & Design	January 7, 2	2018	1.0.0	4.0.3 and up
Coloring book moana	ART_AND_DESIGN	3.9	967	14M	500,000+	Free	0 Everyone	Art & Designo	January 15,	2018	2.0.0	4.0.3 and up
U Launcher Lite å€" FREE Live Cool Ti	he ART_AND_DESIGN	4.7	87510	8.7M	5,000,000+	Free	0 Everyone	Art & Design	August 1, 2	018	1.2.4	4.0.3 and up
Sketch - Draw & Paint	ART_AND_DESIGN	4.5	215644	25M	50,000,000+	Free	0 Teen	Art & Design	June 8, 201	8	Varies with	devi 4.2 and up
Pixel Draw - Number Art Coloring Bo				2.8M	100,000+	Free	0 Everyone	Art & Design;				1.1 4.4 and up
Paper flowers instructions	ART_AND_DESIGN			5.6M	50,000+	Free	0 Everyone	Art & Design				1 2.3 and up
Smoke Effect Photo Maker - Smoke				19M	50,000+		0 Everyone	Art & Design				1.1 4.0.3 and up
Infinite Painter	ART_AND_DESIGN		36815		1,000,000+		0 Everyone	Art & Design			6.1.61.1	4.2 and up
Garden Coloring Book Kids Paint Free - Drawing Fun	ART_AND_DESIGN ART_AND_DESIGN		13791	33M 3.1M	1,000,000+	Free	0 Everyone 0 Everyone	Art & Design			2.9.2	3.0 and up 2.8 4.0.3 and up
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An Analyst needs data about the sessions which lasted for more than 1 minute(60 seconds). Can you help him gather the data of the past 10 months needed for analysis.

[Note: Write a query which met/resolve the business requirement]

select user_name, login_duration from User_Session_Data where login_duration >= 60 and session_in_time between date_sub(current_date(), interval 10 month) and current_date;

Question #11 Descriptive SQL Question Consider a table consisting of the studentinfo of students in a mathematics test along with their unique student_id. Write a query to determine which students got marks that are divisible by 10 and which students did not by creating a virtual table. Make sure that the output is ordered by student_id.	Marks e
Student_id Marks 1	
Student_id Marks div_by_ten 1	
create view st as select student_id, marks, (case when marks % 10 = 0 then 'YES' else 'NO') dt from studentinfo;	