









Question 2

Consider the table employeedetail given below:

Table: employeedetall

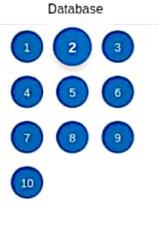
empid	empname	empsalary	bonus	projectdept
1	John	27000	400	Finance
2	Michael	20000	300	Telecom
3	John	40000	600	ENG
4	Mike	50000	700	ENG
5	Robert	25000	NULL	Telecom
6	Robert	20000	300	Telecom
7	Peter	30000	NULL	ENG
8	Carl	27000	NULL	Finance

Query:

SELECT projectdept , ROUND(AVG(empsalary)) AVGSAL , **SUM**(bonus)TOTALBONUS FROM employeedetail

GROUP BY projectdept HAVING AVG(empsalary) > 20000 AND SUM(bonus) > 500;

When the above query is executed, which of the following will appear as part of output?



GROUP BY projectdept HAVING AVG(empsalary) > 20000 AND SUM(bonus) > 500;

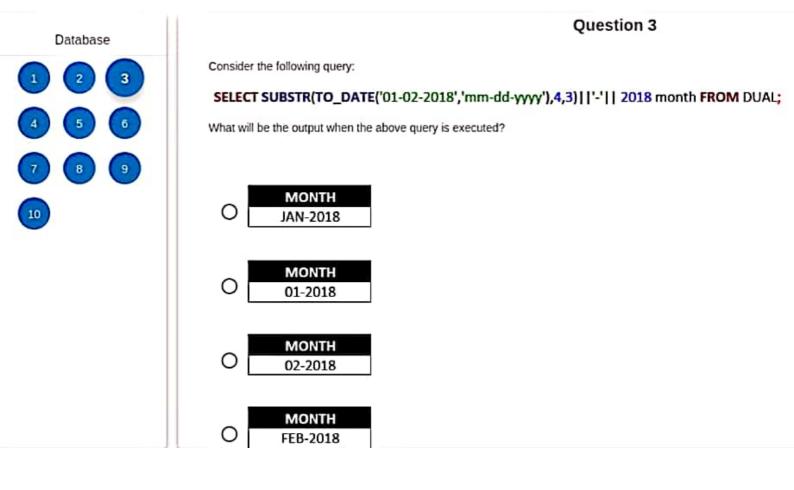
When the above query is executed, which of the following will appear as part of output?

_	PROJECTDEPT	AVGSAL	TOTALBONUS
0	Finance	40000	600

	PROJECTDEPT	AVGSAL	TOTALBONUS
\circ	ENG	40000	1300
)	Finance	40000	600

_	PROJECTDEPT	AVGSAL	TOTALBONUS
0	ENG	40000	1300

	PROJECTDEPT	AVGSAL	TOTALBONUS
	Telecom	21667	600
0	Finance	40000	600
	ENG	50000	700











Question 4

Consider the tables **customer**, **vehicle** and **booking** given below having the information of the vehicles booked by amount:

Table:customer

customerid	name
C101	Richard
C102	Jason
C103	Xavier
C104	Albert

Table:vehicle

vehicleid	vehiclemodel
V101	Vespa
V102	Activa
V103	Gusto
V104	Maestro

Table:booking

customerid	vehicleid	bookingid	bookingamount
C101	V104	B101	2000
C102	V102	B102	1500











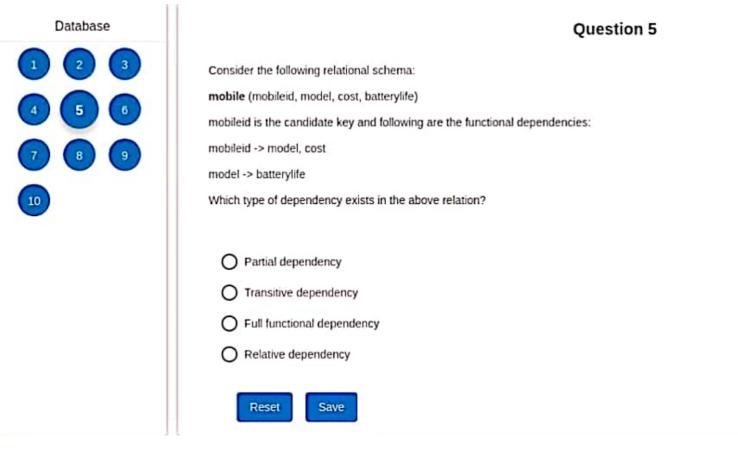
customerid	vehicleid	bookingid	bookingamount
C101	V104	B101	2000
C102	V102	B102	1500
C103	V102	B103	1000
C104	V101	B104	1400
C101	V101	B105	1000

Query:

SELECT name, vehiclemodel, bookingid, bookingamount FROM customer c INNER JOIN booking b ON c.customerid = b.customerid AND name LIKE '%a%' LEFT OUTER JOIN vehicle v ON b.vehicleid = v.vehicleid WHERE bookingamount > 1300;

How many rows will be fetched when the above query is executed?

- O 5
- O 4
- \cap 2
- O 2









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Question 6

Consider the table consultant given below:

Table: consultant

id	name	gender	doj	dob	mobnumber
1001	Kristen	F	20-Jan-19	5-Dec-92	8789631235
1002	Michael	М	22-Feb-18	19-Mar-92	NULL
1003	Evan	F	12-Sep-19	21-Jul-93	NULL
1004	Robert	M	8-Apr-19	16-Aug-92	9876584912

Query:

UPDATE consultant SET mobnumber = 8967859400 WHERE id = 1003; UPDATE consultant SET name = 'Rahim' WHERE id = 1002; DELETE FROM consultant WHERE gender = 'F' AND dob LIKE '%92'; SELECT name, gender, mobnumber FROM consultant;

What will be the output when the above statements are executed sequentially?











	NAME	GENDER	MOBNUMBER
0	Rahim	М	NULL
	Evan	F	8967859400
	Robert	М	9876584912

	NAME	GENDER	MOBNUMBER
	Kristen	F	8789631235
\sim	Evan	F	8967859400

	NAME	GENDER	MOBNUMBER
0	Kristen	F	8789631235
	Rahim	М	NULL
	Robert	М	9876584912

	NAME	GENDER	MOBNUMBER
\circ	Robert	М	9876584912
_	Rahim	M	NULL









Question 7

Consider the table account given below:

Table: account

accountnum	customerid	balance	accttype	status
100001	1001	9999	Savings	Closed
100002	1002	2500	Current	Active
100003	1003	3600	Savings	Active
100004	1004	5800	Savings	Active

Choose the appropriate SQL query to fetch the account numbers of the customers who have an active account with a balance less than the average balance.

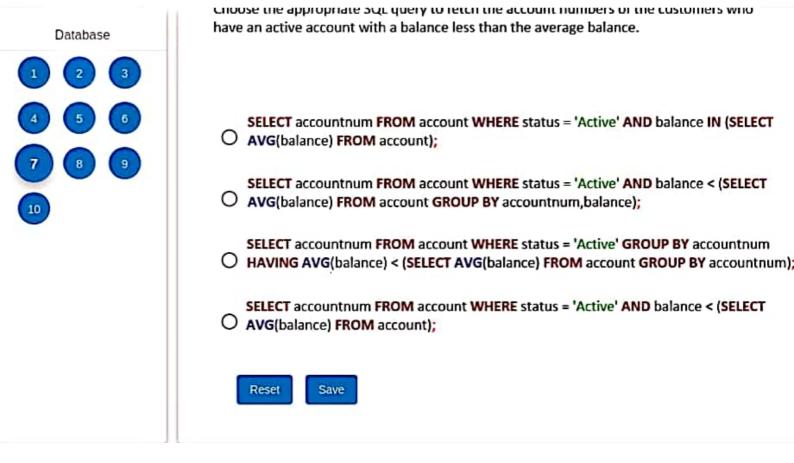
SELECT accountnum FROM account WHERE status = 'Active' AND balance IN (SELECT O AVG(balance) FROM account);

....

You're being proctored!

SELECT accountnum FROM account WHERE status = 'Active' AND balance < (SELECT

O_AVG(halance) FROM account GROUP BY accountnum balance):











Question 8

Consider the table consultation given below:

Table: consultation

consultationid	department	doctorid	patientid	consultationdate	fees
1001	PED	D901	P901	12-Feb-18	210
1002	ENT	D902	P902	20-Jan-18	110
1003	GYN	D903	P903	20-Feb-18	470
1004	ENT	D904	P901	11-Feb-18	250
1005	OPD	D905	P904	12-Jan-18	300
1006	GYN	D906	P905	12-Mar-18	640
1007	PED	D901	P902	19-Feb-18	270

Query:

SELECT consultationid, patientid FROM consultation WHERE TO_CHAR(consultationdate, 'MON') = 'FEB' AND fees > 250 UNION ALL SELECT consultationid, patientid FROM consultation WHERE department = 'GYN' AND fees <= 640 ORDER BY 1 DESC;



















TO_CHAR(consultationdate, 'MON') = 'FEB' AND fees > 250
UNION ALL

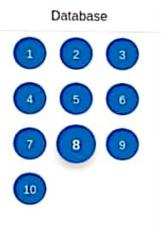
SELECT consultationid, patientid FROM consultation
WHERE department = 'GYN' AND fees <= 640 ORDER BY 1 DESC;

What will be the output when the above query is executed?

	CONSULTATIONID	PATIENTID
0	1003	P903
	1007	P902
	1003	P903
	1006	P905

0	CONSULTATIONID	PATIENTID
	1007	P902
	1006	P905
	1003	P903

CONSULTATIONID PATIENTID



\vee	1006	P905
-	1003	P903

0	CONSULTATIONID	PATIENTID
	1007	P902
	1006	P905
	1004	P901
	1003	P903

0	CONSULTATIONID	PATIENTID
	1007	P902
	1006	P905
	1003	P903
	1003	P903

Reset

Save

1 2 3 4 5 6 7 8 9

Database

Question 9

Consider a MongoDB collection named item given below:

db.item.insert([[_id: 1, description: "Sugar", price: 60, discount: 10],

[id: 2, description: "Vinegar", price: 110, discount: 15],

[_id: 3, description: "Tea", price: 200, discount: 20],

[id: 4, description: "Biscuits", price: 50, discount: 20],

[_id: 5, description: "Coffee", price: 75, discount: 5]]);

Tom executed the following mongodb statements:

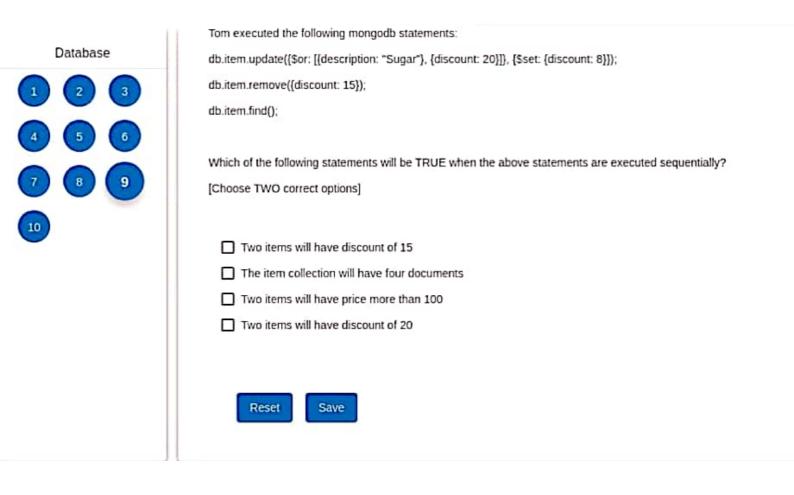
db.item.update({\$or; [{description: "Sugar"}, {discount: 20}]}, {\$set: {discount: 8}});

db.item.remove({discount: 15});

db.item.find();

Which of the following statements will be TRUE when the above statements are executed sequentially?

[Choose TWO correct options]











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Table: libraryregister

bie. libi di yi	bie. Hbi bi yi egistei			
issueid	bookid	issuedate	returndate	
10001	1005	15-Jan-18	20-Jan-18	
10002	1011	12-Feb-18	20-Feb-18	
10003	1006	5-May-19	17-May-19	
10004	1020	12-Jan-19	20-Jan-19	
10005	1001	25-Dec-18	10-Jan-19	
10006	1001	12-Feb-18	20-May-18	
10007	1001	12-Jan-19	20-Jan-19	

Query:

SELECT bookname FROM libraryregister l1, book b WHERE l1.bookid = b.bookid AND EXISTS (SELECT 1 FROM libraryregister l2 WHERE l1.issuedate = l2.issuedate AND l1.issueid <> l2.issueid AND l1.returndate = l2.returndate);

What will be the output when the above query is executed?

	BOOKNAME
	A Brief History Of Time
\circ	Gulliver's travel









Question 10

Consider the tables book and libraryregister given below:

Table: book

bookid	bookname
1001	A Brief History Of Time
1005	Hamlet
1006	The Grand Design
1011	Gulliver's travel
1020 Cosmos: A Personal Voya	
1008	War and Peace

Table: libraryregister

issueid	bookid	issuedate	returndate
10001	1005	15-Jan-18	20-Jan-18
10002	1011	12-Feb-18	20-Feb-18
10003	1006	5-May-19	17-May-19
10004	1020	12-Jan-19	20-Jan-19
10005	1001	25-Dec-18	10-Jan-19
10006	1001	12-Feb-18	20-May-18
10007	1001	12-Jan-19	20-Jan-19









l	10006	1001	12-Feb-18	20-May-18
ſ	10007	1001	12-Jan-19	20-Jan-19

Query:

SELECT bookname FROM libraryregister I1, book b WHERE I1.bookid = b.bookid AND EXISTS (SELECT 1 FROM libraryregister I2 WHERE I1.issuedate = I2.issuedate AND I1.issueld <> I2.issueld AND I1.returndate = I2.returndate);

What will be the output when the above query is executed?

	BOOKNAME		
0	A Brief History Of Time		
	Gulliver's travel		
	Cosmos: A Personal Voyage		

