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AssessmentDB2

The 3 developers wrote the following queries:

Tom:

```
SELECT STUDENTID, CASE WHEN MARKS < 50 THEN 'FAIL' ELSE TO_CHAR(Marks) END AS STATUS FROM ASSESSMENT
```

Dick:

```
SELECT STUDENTID, CASE WHEN MARKS < 50 THEN 'FAIL' ELSE Marks END AS STATUS FROM ASSESSMENT
```

Harry:

```
SELECT STUDENTID, CASE WHEN MARKS > 50 THEN 'FAIL' ELSE Marks END FROM ASSESSMENT
```

Which one of them will give the desired output?

☐ Dick

☐ Harry

☒ Tom

☐ None of them

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Q2 of 20

Consider the following code written for creating the table:

```
CREATE TABLE ACCOUNT (ACCNO INT, ACCNAME VARCHAR(30) NOT NULL, BALANCE);
```

The table is NOT getting created, identify the reason.

☐ BALANCE must be NOT NULL

☐ ACCNO must be NOT NULL

☐ Primary key is missing for ACCOUNT

☒ BALANCE must have a datatype

Q3 of 20

Tables course and student have 1-N relationship respectively. Cid is the primary key of course table and Sid is the primary key of student table. To which table the foreign key should be added?

Course

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primary key of student table. To which table the foreign key should be added?

Course
Cid
Cname

Student
Sid
Sname

☐ Either Student or Course
☐ In 1-N relationship foreign key cannot be established
☒ Only Student
☐ Only Course

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CREATE TABLE EMP(
empid NUMBER(10) PRIMARY KEY,
empname VARCHAR2(50),
cabinnumber NUMBER(20) UNIQUE
);
Currently table has some data as given below:

empid	empname	cabinnumber
1001	Hari	789
1002	Varun	145
1003	Shyam	458

Select the right option for inserting a new row into the table.

☐ INSERT INTO EMP VALUES (1004,'Lali',789);
☒ INSERT INTO EMP VALUES (1004,'Lali',NULL);
☐ INSERT INTO EMP VALUES (NULL,'Lali',456);
☐ INSERT INTO EMP VALUES (1003,'Lali',578);

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EmployeeNo	EmployeeName	Department	Salary
1111	Paul	Sales	1000
1222	Smith	Sales	200
2111	Gary	Marketing	1000
2222	Manya	Marketing	500
3111	Raj	HR	1000
3222	Paul	HR	200

The following queries were executed on the table successfully :

UPDATE EMPLOYEE SET DEPARTMENT = 'HR' WHERE DEPARTMENT = 'Marketing' ;

DELETE FROM EMPLOYEE WHERE DEPARTMENT = 'HR' AND SALARY = 1000;

What will be the output of the following query?

SELECT COUNT(*) FROM EMPLOYEE;

☐ 5
☐ 6
☒ 4
☐ 2

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Consider the following statements with respect to a candidate key:

a. Candidate key identifies rows in a relation uniquely.
 b. There can be only one candidate key in a relation.
 c. A candidate key can be a combination of more than one attribute in a relation.

Identify the statement(s) which are TRUE.

☒ Only a and c
☐ Only a and b
☐ only a
☐ Only b and c

Q7 of 20

Consider the below table SalesPersons:

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Consider the below table salesperson.

Id	Amount
1002	2400
1005	1800
1001	460
1002	2400
1009	600
1009	600
1009	600

SELECT DISTINCT Id, Amount FROM SalesPerson ORDER BY Amount ASC;

Based on the output of the above query, identify the correct statement.

- ☒ 1005 will be 3rd record
- ☐ 1009 will be 4th record
- ☐ 1002 will be 1st record
- ☐ 1001 will be 4th record

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Consider the tables vehtype and vehicle given below:

vehtype(vid, vtype) with vid being the primary key.

vehicle(id, vid, brand, model, price) with id being the primary key and vid foreign key to the vehtype table.

Consider the below join query:

```
select brand from vehicle v join vehtype vt
on v.vid=vt.vid
group by brand
having count(vtype)>1
```

Choose an equivalent subquery that would achieve the functionality performed by the above join query.

Note: The only difference between the options is in the 'WHERE' clause.

- ☐ SELECT brand FROM vehicle WHERE vid in (SELECT vid FROM vehtype HAVING COUNT(vtype)>1);
- ☐ SELECT brand FROM vehicle WHERE vid in (SELECT vid FROM vehtype GROUP BY vid HAVING COUNT(vtype)>1)
- ☐ SELECT brand FROM vehicle WHERE vid IN (SELECT vid FROM vehtype) HAVING COUNT(vid)>1;
- ☒ SELECT brand FROM vehicle WHERE vid in (SELECT vid FROM vehtype) GROUP BY brand HAVING COUNT(vid)>1

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EMPNO	ENAME	JO	DO
1002	John	20	2000
1003	Jack	30	4000
1005	Jane	10	4000

empno is primary key
deptno is foreign key

Table:dept

deptno	dname
10	Finance
20	Accounts
30	Sales
40	Infrastructure

deptno is the primary key

Which of the following queries will execute successfully?

- ☒ INSERT INTO emp VALUES(1006, 'Fedrick', 10, 2000);
- ☒ INSERT INTO emp VALUES (1008, 'Fedrick', NULL, 3000);
- ☐ INSERT INTO dept (deptno) VALUES (40);
- ☐ INSERT INTO dept VALUES (NULL, 'HR');

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A)

TOYID	TOYNAME	CATEGORYID	PRICE
202	Racing Car	103	600
205	Teddy	101	600

B)

TOYID	TOYNAME	CATEGORYID	PRICE
200	Barbie	101	200
204	Ken Beat	102	400
206	Monster Car	103	500

C)

TOYID	TOYNAME	CATEGORYID	PRICE
204	Ken Beat	102	400
206	Monster Car	103	500

D)

TOYID	TOYNAME	CATEGORYID	PRICE
202	Racing Car	103	600
205	Teddy	101	600

☐ A

☐ B

☐ C

☒ D

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Which of the following will be one of the rows in the output of the below SQL query?

```
SELECT BrokerNo, COUNT(NVL(Commission,0)) Commission
FROM Broker GROUP BY BrokerNo;
```

A)

BrokerNo	Commission
103	0

B)

BrokerNo	Commission
102	3

C)

BrokerNo	Commission
103	1

D)

BrokerNo	Commission
103	null

☐ A

☐ B

☒ C

☐ D

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AssessmentDB2

Contents Details

104 Mumbai

DestId is the PRIMARY KEY.

Another table Travel holds the list of tour packages as given below:

TravelId	TourName	DestId
5001	Delhi Delight	101
5002	Capital Delight	101
5003	Mumbai Mazzaa	104
5004	Chennai Express	103
5005	Southern Spice	103

DestId in the Travel table references the DestId of the Destination table using a FOREIGN KEY.

Given the above details which of the following queries will execute successfully.

Choose 2 CORRECT options.

☒ DELETE FROM Destination where destId = 102

☐ UPDATE Destination SET destId = 105 where destId = 103

☐ DELETE FROM Destination where destId = 104

☒ UPDATE Destination SET destId = 105 where destId = 102

- Performance 4h 32m ✓
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- Self Study on DB Performance 1h 55m ✓
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Consider the table Teacher given below:

TeacherId	FirstName	Location	Salary	Availability
T300	James	Chennai	5000	Y
T301	Klem	Mysore	5700	Y
T302	Nancy	Delhi	5000	Y
T303	Donald	Pune	6500	N
T304	Ervin	Delhi	4750	N

How many rows will get updated when the below query is executed?

UPDATE TEACHER SET SALARY = SALARY + 5000 WHERE TEACHERID IN (SELECT TEACHERID FROM TEACHER WHERE AVAILABILITY = 'N' OR SALARY > 5000);

☐ 1
☐ 4
☒ 3
☐ 2

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FGH 4000 PC
FGH 4001 Printer
FGH 4002 Laptop

Note: modelno is the PRIMARY KEY of products table.

What will be the output of the following query?

SELECT prodtype FROM products
GROUP BY prodtype
HAVING COUNT(modelno) = (SELECT MIN(COUNT(modelno)) FROM products GROUP BY prodtype);

☐ PC
☒ PC
 Printer
☐ Laptop
☐ Printer

Q16 of 20

Consider the tables SUPPLIER and ORDERS given below:

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Contents Details

TABLE: SUPPLIER

SUPPLIER_ID	SUPPLIER_NAME
10001	MICROSOFT
10002	HONEYWELL
10003	NOKIA
10004	SAMSUNG

Identify the query to fetch the details of all the suppliers along with order details. Include the suppliers who haven't ordered any items also.

☐ SELECT s.supplier_id, o.supplier_id, o.order_date FROM supplier s RIGHT OUTER JOIN orders o on s.supplier_id=o.supplier_id;

☐ SELECT s.supplier_id, o.supplier_id, o.order_date FROM orders o LEFT OUTER JOIN supplier s on s.supplier_id=o.supplier_id;

☐ SELECT s.supplier_id, o.supplier_id, o.order_date FROM orders o FULL OUTER JOIN supplier s on s.supplier_id=o.supplier_id;

☒ SELECT s.supplier_id, o.supplier_id, o.order_date FROM supplier s LEFT OUTER JOIN orders o on s.supplier_id=o.supplier_id;

Performance 4h 32m ✓

Practice Problems : Transaction, Inde...35m ✓

Videos on Transactions 17m 52s ✓

Self Study on DB Performance 1h 55m ✓

NoSQL Databases 7h 54m ✓

Practice Problems : NoSQL 1h 30m ...

DB Design 30m ...

Practice Quiz 2h ✓

Advanced Practice Problems 3h 30m ✓

Database Playground 2h ...

AssessmentDB2 1h 30m ...

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Contents Details

Table: subscription

subscriptionId	customerId	channelId
501	101	201
502	101	202
503	102	203
504	102	201
505	103	201

What is the output of the below query?

SELECT customerName
FROM customer c JOIN subscription s ON s.customerId=c.customerId
WHERE s.customerId NOT IN (SELECT customerId
FROM subscription GROUP BY customerId HAVING COUNT (customerId) =
(SELECT MAX(COUNT(customerId)) FROM subscription GROUP BY customerId));

☐ Jack

☒ Harry

☐ Tom

☐ Peter

Performance 4h 32m ✓

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Videos on Transactions 17m 52s ✓

Self Study on DB Performance 1h 55m ✓

NoSQL Databases 7h 54m ✓

Practice Problems : NoSQL 1h 30m ...

DB Design 30m ...

Practice Quiz 2h ✓

Advanced Practice Problems 3h 30m ✓

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SELECT CustAccId, Balance, BankName, ad.AccId FROM CustAccountDetails cd
INNER JOIN Bank ba ON ba.BankCode = cd.BankCode INNER JOIN AccountDetails ad
ON cd.AccId = ad.AccId
WHERE Balance >
(SELECT AVG(Balance) FROM CustAccountDetails
INNER JOIN Bank
ON Bank.BankCode = CustAccountDetails.BankCode
WHERE BankName = ba.BankName) AND ad.AccType = 'Saving';

CustAccId	Balance	BankName	AccId
CA03	600000	ICICI	AC101
CA01	500000	ICICI	AC101

A)

CustAccId	Balance	BankName	AccId
CA04	700000	HDFC	AC103
CA03	600000	ICICI	AC101

B)

CustAccId	Balance	BankName	AccId
CA03	600000	ICICI	AC101

C)

D) No rows will be selected

☐ A

☐ B

Performance 4h 32m ✓

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Videos on Transactions 17m 52s ✓

Self Study on DB Performance 1h 55m ✓

NoSQL Databases 7h 54m ✓

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CA01	B101	AC101	500000
CA02	B102	AC102	550000
CA03	B101	AC101	600000
CA04	B103	AC103	700000
CA05	B104	AC104	400000

Table: AccountDetails

AccId	AccType
AC101	Saving
AC102	Demat
AC103	Current
AC104	Recurring

What will be the output of the following query?

SELECT B.BankName,AD.AccType,SUM(Balance)
FROM CustAccountDetails CA INNER JOIN Bank B ON CA.BankCode = B.BankCode
INNER JOIN AccountDetails AD ON CA.AccId = AD.AccId
GROUP BY B.BankName,AD.AccType HAVING SUM(Balance) =
(SELECT MIN(SUM(Balance)) from custAccountDetails GROUP BY BankCode,AccId);

BankName	AccType	Sum(Balance)
HSBC	Demat	550000
HDFC	Current	700000
SBI	Recurring	400000

A)

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1h 19m (Submitted)

Result:PASS

18	2	0	90
Correct	Incorrect	Unanswered	Percentage

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Videos on Transactions17m 52s✓

Self Study on DB Performance1h 55m✓

NoSQL Databases7h 54m✓

Practice Problems : NoSQL1h 30m

DB Design30m

Practice Quiz2h✓

Advanced Practice Problems3h 30m✓

Database Playground2h

AssessmentDB21h 30m✓

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