

DBMS Hands-on Assessment

Duration: 60 Minutes

Max Marks: 10

Instructions to examinees:

1. Read the problem statement, functionality and the other details provided carefully and implement the solution.
2. You need **NOT** create table(s) and insert records, as it has been already created and the necessary records have been populated in Eclipse plugin.
3. Once you have implemented the solution(s), save the solution(s) in Eclipse plugin.
4. Submit the assessment folder which will be there inside workspace of examid folder through hands on client.
5. The solutions provided by you must:
 - a. be generic and independent of the given sample data.
 - b. **NOT** be hard coded.
6. You can test your queries by inserting rows using test.sql that would be provided in SQL folder.
7. You can see the modified table data (if any done by you) by writing SELECT queries in test.sql that would be provided inSQL folder or by clicking the table name.
8. You can get original data by clicking on Reload button.
9. Do not try to delete any of the files.
10. You must **stop working** when the installer asks you to do so.



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15. The rows displayed can be in any order.

A business scenario:

EasyCab is a travel company which deals with booking cabs based on customer's needs. It allows its customers to book cabs online.

Following is the database maintained by the travel company which stores the information of the customers, cabs and bill details.

Description of tables:

Table: customer

The **customer** table provides the details of the customers.

Column name	Data type and size	Constraints	Description
custId	VARCHAR2(20)	PRIMARY KEY,CHECK	unique customer id, starts with 'C'
custname	VARCHAR2(25)	NOT NULL	name of the customer

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Table: cab

The **cab** table provides the details of available cabs and their types.

Column name	Data type and size	Constraints	Description
cabnum	NUMBER	PRIMARY KEY	unique cab number

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The **customer** table provides the details of the customers.

Column name	Data type and size	Constraints	Description
custid	VARCHAR2(20)	PRIMARY KEY, CHECK	unique customer Id, starts with 'C'
custname	VARCHAR2(25)	NOT NULL	name of the customer

Table: cab

The **cab** table provides the details of available cabs and their types.

Column name	Data type and size	Constraints	Description
cabnum	NUMBER	PRIMARY KEY	unique cab number
cabtype	VARCHAR2(20)		type of the cab
pricepermile	NUMBER	NOT NULL	fare per mile in dollars
basefare	NUMBER	NOT NULL	base fare in dollars

Table: bill

The **bill** table provides the billing information.

Column name	Data type and size	Constraints	Description

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The **cab** table provides the details of available cabs and their types.

Column name	Data type and size	Constraints	Description
cabnum	NUMBER	PRIMARY KEY	unique cab number
cabtype	VARCHAR2(20)		type of the cab
pricepermile	NUMBER	NOT NULL	fare per mile in dollars
basefare	NUMBER	NOT NULL	base fare in dollars

Table: bill

The **bill** table provides the billing information.

Column name	Data type and size	Constraints	Description
billid	VARCHAR2(20)	PRIMARY KEY, CHECK	unique bill number, starts with 'B'
cabnum	NUMBER	FOREIGN KEY	existing cabnum present in cab table
custid	NUMBER	FOREIGN KEY	existing custid present in customer table
billamount	NUMBER	CHECK	bill amount in dollars, and must be greater than 0(zero)
billdate	DATE	NOT NULL	date on which bill is

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billdate	DATE	NOT NULL	date on which bill is generated
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Sample data for **customer** table:

custid	custname
C100	Jack
C101	Nancy
C102	Sam
C103	Smith
C104	George

Sample data for **cab** table:

cabnum	cabtype	pricepermile	basefare
900	Yellow cab	2	20

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Sample data for **customer** table:

custid	custname
C100	Jack
C101	Nancy
C102	Sam
C103	Smith
C104	George

Sample data for **cab** table:

cabnum	cabtype	pricepermile	basefare
900	Yellow cab	2	20
901	Golden cab	5	55
902	Star cab	4	43
903	Bell cab	2	20
904	Executive cab	6	60

Sample data for **bill** table:

billid	cabnum	custid	billamount	billdate
B101	900	C100	210	20-1-17

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Sample data for cab table:

cabnum	cabtype	pricepermile	basefare
900	Yellow cab	2	20
901	Golden cab	5	55
902	Star cab	4	43
903	Bell cab	2	20
904	Executive cab	6	60

Sample data for bill table:

billid	cabnum	custid	billamount	billdate
B101	900	C100	240	20-Apr-17
B102	901	C101	340	21-Apr-15
B103	900	C100	200	22-May-17
B104	901	C102	400	25-May-15
B105	900	C101	200	12-Jun-18
B106	902	C100	240	27-Jun-17
B107	903	C103	380	12-Jul-15

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Write SQL queries for the following requirements: [10 Marks]

Important Note: For the given requirements, display UNIQUE records wherever applicable.

Display cabnum and cabtype of those cabs whose cabtype has letter 'e' anywhere and basefare is between 30 and 60.

In the given sample data, the following record will feature as part of the output along with other record(s).

CABNUM	CABTYPE
901	Golden cab

Write the solution (query) in dbms_solA.sql file [2 Marks]

and total_billamount as "TOTALBILLAMOUNT" (column alias) of those customer(s) who have booked the cab and paid TOTALBILLAMOUNT more than 400.

In the given sample data, the following record will feature as part of the output along with other record(s).

CUSTID	TOTALBILLAMOUNT
C100	680

Write the solution (query) in dbms_solB.sql file [2 Marks]

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Display **cabnum** and **cabtype** of those cabs whose **cabtype** has letter 'e' anywhere and **basefare** is between 30 and 60.

For the given sample data, the following record will feature as part of the output along with other record(s).

CABNUM	CABTYPE
901	Golden cab

Note: Type the solution (query) in **dbms_solA.sql** file [2 Marks]

Display **custid** and **total_billamount** as "TOTALBILLAMOUNT" (column alias) of those customer(s) who have booked the cab and paid **TOTALBILLAMOUNT** more than 400.

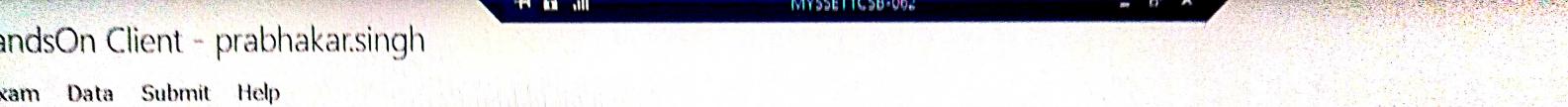
For the given sample data, the following record will feature as part of the output along with other record(s).

CUSTID	TOTALBILLAMOUNT
C100	680

Note: Type the solution (query) in **dbms_solB.sql** file [2 Marks]

For each customer, display **custid** and **billid** as "BILL" (column alias). Display "BILL" as 'N', If the customer has NOT booked any cab.

For the given sample data, the following records will feature as part of the output along with other record(s).



Display **custid** and total billamount as "**TOTALBILLAMOUNT**" (column alias) of those customer(s) who have booked the cab and paid **TOTALBILLAMOUNT more than 400**.

For the given sample data, the following record will feature as part of the output along with other record(s).

CUSTID	TOTALBILLAMOUNT
C100	680

Note: Type the solution (query) in `dbms_solB.sql` file

[2 Marks]

For each customer, display **custid** and billid as "**BILL**" (column alias). Display "**BILL**" as 'N', If the customer has NOT booked any cab.

For the given sample data, the following records will feature as part of the output along with other record(s).

CUSTID	BILL
C100	B103
C104	N

Note: Type the solution (query) in `dbms_solC.sql` file

[3 Marks]

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Note: Type the solution (query) in *dbms_solB.sql* file [2 Marks]

For each customer, display **custid** and **billid** as “**BILL**” (column alias). Display “**BILL**” as ‘**N**’, If the customer has NOT booked any cab.

For the given sample data, the following records will feature as part of the output along with other record(s).

CUSTID	BILL
C100	B103
C104	N

Note: Type the solution (query) in *dbms_solC.sql* file [3 Marks]

D. Display **custid** and **billamount** of different customers who have paid the same **billamount**.

For the given sample data, following is the expected output.

CUSTID	BILLAMOUNT
C100	200
C101	200

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C100	B103
C104	N

Note: Type the solution (query) in `dbms_solC.sql` file [3 Marks]

D. Display custid and billamount of different customers who have paid the same billamount.

For the given sample data, following is the expected output.

CUSTID	BILLAMOUNT
C100	200
C101	200

Note: Type the solution (query) in `dbms_solD.sql` file [3 Marks]

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C100	B103
C104	N

Note: Type the solution (query) in *dbms_solC.sql* file [3 Marks]

D. Display **custid** and **billamount** of different customers who have paid the same *billamount*.

For the given sample data, following is the expected output.

CUSTID	BILLAMOUNT
C100	200
C101	200

Note: Type the solution (query) in *dbms_solD.sql* file [3 Marks]