

Problem StatementMarks:2

A. Display learnerid and name of the learner who have pre booked for the course and whose name ends with 'en' or email id starts with character 'd'. For the given sample data, the following records will feature as part of the output along with other record(s).

Sample Output**LEARNERID NAME**

L005 Elen

Table Name : LEARNER

Column Name	Data type and Size	Constraints	Description
learnerid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique learner id, starts with 'L'
name	VARCHAR2(30)		Name of the learner
qualification	VARCHAR2(30)		Highest educational qualification of the learner
email	VARCHAR2(50)		Email id of the learner

Table Name : COURSE

Column Name	Data type and Size	Constraints	Description
courseid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique course id starts with 'C'
title	VARCHAR2(30)		Description of the course
duration	NUMBER		Duration of the course in days
type	VARCHAR2(2)	CHECK	Type of the course should be 'A' or 'NA', A- Assessed, NA-Not Assessed
coursefee	NUMBER		Fee for the course

Table Name : EXAM

Column Name	Data type and Size	Constraints	Description
examid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique exam id, starts with 'E'
courseid	VARCHAR2(10)	FOREIGN KEY, NOT NULL	Existing courseid present in the course table
centre	NUMBER		Centre code where exam can be taken
examdate	DATE		Date of the exam
freeslots	NUMBER		Free slots available for taking up the exam
examfee	NUMBER		Fee for appearing for the exam

Table Name : PREBOOKING

Column Name	Data type and Size	Constraints	Description
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Table Name : PREBOOKING

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Column Name	Data type and Size	Constraints	Description
prebookingid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique prebooking id, starts with 'PB'
learnerid	VARCHAR2(10)	FOREIGN KEY, NOT NULL	Existing learnerid present in learner table
courseid	VARCHAR2(10)	FOREIGN KEY, NOT NULL	Existing courseid present in course table
examid	VARCHAR2(10)	FOREIGN KEY, NOT NULL	Existing examid present in exam table
finalfee	NUMBER		Sum of course fee and exam fee

Table Name : LEARNER

learnerid name qualification email

L001	Alen	MCA	alen@abc.com
L002	Ben	BE	ben@xyz.com
L003	Clark	ME	clark@ymail.com
L004	David	PhD	david@abc.com
L005	Elen	ME	elen@xyz.com
L006	Eliza	ME	eliza@ymail.com

Table Name : COURSE

courseid	title	duration	type	coursefee
C001	Advanced Java	20.0	A	750.0
C002	Oracle(Advanced Concepts)	30.0	A	5000.0
C003	Advanced Dot Net	15.0	A	4000.0
C004	SAP FIN	40.0	A	18000.0
C005	HTML	3.0	NA	800.0
C006	Application Security	10.0	A	15000.0
C007	Agile Methodology	10.0	A	20000.0
C008	PHP	3.0	NA	800.0
C009	Networks	3.0	NA	800.0
C010	SE	5.0	A	1500.0

Table Name : EXAM

exam	courseid	centre	examdate	freelots	examfee
E1	C003	32.0	43490.0	10.0	500.0
E2	C002	46.0	43332.0	8.0	500.0
E3	C003	38.0	43636.0	12.0	500.0
E4	C004	21.0	43549.0	15.0	1750.0
E5	C010	50.0	43310.0	20.0	250.0
E6	C007	34.0	43738.0	21.0	1000.0

Table Name : PREBOOKING

C009	Networks	3.0	NA	800.0
C010	SE	5.0	A	1500.0

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Table Name : EXAM

exam	courseid	centre	examdate	freeslots	examfee
E1	C003	32.0	43490.0	10.0	500.0
E2	C002	46.0	43332.0	8.0	500.0
E3	C003	38.0	43636.0	12.0	500.0
E4	C004	21.0	43549.0	15.0	1750.0
E5	C010	50.0	43310.0	20.0	250.0
E6	C007	34.0	43738.0	21.0	1000.0

Table Name : PREBOOKING

prebookingid	learnerid	courseid	examid	finalfee
PB1001	L003	C002	E2	5500.0
PB1002	L005	C002	E2	5500.0
PB1003	L004	C003	E1	4500.0
PB1004	L003	C010	E5	1750.0
PB1005	L001	C003	E3	4500.0
PB1006	L002	C007	E6	21000.0

Problem Statement

Marks:2

A. Display learnerid and name of the learner who have pre booked for the course and whose name ends with 'en' or email id starts with character 'd'. For the given sample data, the following records will feature as part of the output along with other record(s).

Sample Output

LEARNERID	NAME
L005	Elen

Languages: SQL

Select language

SQL

Code is saved

Editor Options

A+

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02:04:33

Problem Statement

Marks:2

B. Display numeric part of examid as "ID" (column alias) and examfee of those exam(s) which have more than 20 free slots and have been pre booked. For the given sample data, following is the expected output.

Sample Output

ID EXAMFEE

6.0 1000.0

Table Name : LEARNER

Column Name	Data type and Size	Constraints	Description
learnerid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique learner id, starts with 'L'
name	VARCHAR2(30)		Name of the learner
qualification	VARCHAR2(30)		Highest educational qualification of the learner
email	VARCHAR2(50)		Email id of the learner

Table Name : COURSE

Column Name	Data type and Size	Constraints	Description
courseid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique course id starts with 'C'
title	VARCHAR2(30)		Description of the course
duration	NUMBER		Duration of the course in days
type	VARCHAR2(2)	CHECK	Type of the course should be 'A' or 'NA', A- Assessed, NA-Not Assessed
coursefee	NUMBER		Fee for the course

Table Name : EXAM

Column Name	Data type and Size	Constraints	Description
examid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique exam id, starts with 'E'
courseid	VARCHAR2(10)	FOREIGN KEY, NOT NULL	Existing courseid present in the course table
centre	NUMBER		Centre code where exam can be taken

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02:04:23

Problem StatementMarks:2

C. Identify the learner(s) having two pre bookings. Display learnerid and qualification for the identified learner(s). For the given sample data, following is the expected output.

Sample Output**LEARNERID QUALIFICATION**

L003 ME

Table Name : LEARNER

Column Name	Data type and Size	Constraints	Description
learnerid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique learner id, starts with 'L'
name	VARCHAR2(30)		Name of the learner
qualification	VARCHAR2(30)		Highest educational qualification of the learner
email	VARCHAR2(50)		Email id of the learner

Table Name : COURSE

Column Name	Data type and Size	Constraints	Description
courseid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique course id starts with 'C'
title	VARCHAR2(30)		Description of the course
duration	NUMBER		Duration of the course in days
type	VARCHAR2(2)	CHECK	Type of the course should be 'A' or 'NA', A- Assessed, NA-Not Assessed
coursefee	NUMBER		Fee for the course

Table Name : EXAM

Column Name	Data type and Size	Constraints	Description
examid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique exam id, starts with 'E'
courseid	VARCHAR2(10)	FOREIGN KEY, NOT NULL	Existing courseid present in the course table
centre	NUMBER		Centre code where exam can be taken
examdate	DATE		Date of the exam
freeseats	NUMBER		Free seats available for taking up the exam

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Problem Statement

02:04:14

Marks:2

D. Identify the course(s) which have least coursefee among the courses with duration of 10 or more days. Display the courseid, title, type and coursefee for identified course(s). For the given sample data, following is the expected output.

Sample Output

COURSEID	TITLE	TYPE
C001	Advanced Java A	

Table Name : LEARNER

Column Name	Data type and Size	Constraints	Description
learnerid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique learner id, starts with 'L'
name	VARCHAR2(30)		Name of the learner
qualification	VARCHAR2(30)		Highest educational qualification of the learner
email	VARCHAR2(50)		Email id of the learner

Table Name : COURSE

Column Name	Data type and Size	Constraints	Description
courseid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique course id starts with 'C'
title	VARCHAR2(30)		Description of the course
duration	NUMBER		Duration of the course in days
type	VARCHAR2(2)	CHECK	Type of the course should be 'A' or 'NA', A- Assessed, NA-Not Assessed
coursefee	NUMBER		Fee for the course

Table Name : EXAM

Column Name	Data type and Size	Constraints	Description
examid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique exam id, starts with 'E'
courseid	VARCHAR2(10)	FOREIGN KEY, NOT NULL	Existing courseid present in the course table
centre	NUMBER		Centre code where exam can be taken
examdate	DATE		Date of the exam
freeslots	NUMBER		Free slots available for taking up the exam
examfee	NUMBER		Fee for appearing for the exam

Table Name : PREBOOKING

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Problem Statement

02:04:07

Marks:3

E. For every learner, identify the course pre booking details. Display name, coursefee as "FEE" (column alias) and prebookingid as "PBID" (column alias) for the same. Display 'NA' for FEE and 'NB' for PBID if the learner has not pre booked any course. For the given sample data, the following records will feature as part of the output along with other record(s).

Sample Output

NAME FEE PBID

Eliza NA NB

Table Name : LEARNER

Column Name	Data type and Size	Constraints	Description
learnerid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique learner id, starts with 'L'
name	VARCHAR2(30)		Name of the learner
qualification	VARCHAR2(30)		Highest educational qualification of the learner
email	VARCHAR2(50)		Email id of the learner

Table Name : COURSE

Column Name	Data type and Size	Constraints	Description
courseid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique course id starts with 'C'
title	VARCHAR2(30)		Description of the course
duration	NUMBER		Duration of the course in days
type	VARCHAR2(2)	CHECK	Type of the course should be 'A' or 'NA', A- Assessed, NA-Not Assessed
coursefee	NUMBER		Fee for the course

Table Name : EXAM

Column Name	Data type and Size	Constraints	Description
examid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique exam id, starts with 'E'
courseid	VARCHAR2(10)	FOREIGN KEY, NOT NULL	Existing courseid present in the course table
centre	NUMBER		Centre code where exam can be taken
examdate	DATE		Date of the exam
freeslots	NUMBER		Free slots available for taking up the exam
examfee	NUMBER		Fee for appearing for the exam

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Problem Statement

02:03:59

Marks:3

F. Identify the course(s) whose coursefee is greater than 1500 and less than the average coursefee in their course type. Display courseid, title and type for the identified course(s). For the given sample data, the following record will feature as part of the output along with other record(s).

Sample Output

COURSEID	TITLE	TYPE
C003	Advanced Dot Net A	

Table Name : LEARNER

Column Name	Data type and Size	Constraints	Description
learnerid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique learner id, starts with 'L'
name	VARCHAR2(30)		Name of the learner
qualification	VARCHAR2(30)		Highest educational qualification of the learner
email	VARCHAR2(50)		Email id of the learner

Table Name : COURSE

Column Name	Data type and Size	Constraints	Description
courseid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique course id starts with 'C'
title	VARCHAR2(30)		Description of the course
duration	NUMBER		Duration of the course in days
type	VARCHAR2(2)	CHECK	Type of the course should be 'A' or 'NA', A- Assessed, NA-Not Assessed
coursefee	NUMBER		Fee for the course

Table Name : EXAM

Column Name	Data type and Size	Constraints	Description
examid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique exam id, starts with 'E'
courseid	VARCHAR2(10)	FOREIGN KEY, NOT NULL	Existing courseid present in the course table
centre	NUMBER		Centre code where exam can be taken
examdate	DATE		Date of the exam
examslot	NUMBER		Free slots available for taking up the exam

02:03:49

Reference

HANDS ON

Problem StatementMarks:3

G. Identify the examid(s) that are pre booked maximum number of times. Display prebookingid, name of the learner and title of the course for the pre booking details of such identified examid(s). For the given sample data, the following record will feature as part of the output along with other record(s).

Sample Output

PREBOOKINGID	NAME	TITLE
PB1001	Clark	Oracle(Advanced Concepts)

Table Name : LEARNER

Column Name	Data type and Size	Constraints	Description
learnerid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique learner id, starts with 'L'
name	VARCHAR2(30)		Name of the learner
qualification	VARCHAR2(30)		Highest educational qualification of the learner
email	VARCHAR2(50)		Email id of the learner

Table Name : COURSE

Column Name	Data type and Size	Constraints	Description
courseid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique course id starts with 'C'
title	VARCHAR2(30)		Description of the course
duration	NUMBER		Duration of the course in days
type	VARCHAR2(2)	CHECK	Type of the course should be 'A' or 'NA', A- Assessed, NA-Not Assessed
coursefee	NUMBER		Fee for the course

Table Name : EXAM

Column Name	Data type and Size	Constraints	Description
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02:03:42

Reference

Fin

HANDS ON

Problem StatementMarks:3

Identify the prebooking details which are booked for same course by different learners under different exams for the type 'A' courses. Display courseid, learnerid and examid for the identified prebooking(s).

Sample Output

COURSEID	LEARNERID	EXAMID
C003	L001	E3

Table Name : LEARNER

Column Name	Data type and Size	Constraints	Description
learnerid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique learner id, starts with 'L'
name	VARCHAR2(30)		Name of the learner
qualification	VARCHAR2(30)		Highest educational qualification of the learner
email	VARCHAR2(50)		Email id of the learner

Table Name : COURSE

Column Name	Data type and Size	Constraints	Description
courseid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique course id starts with 'C'
title	VARCHAR2(30)		Description of the course
duration	NUMBER		Duration of the course in days
type	VARCHAR2(2)	CHECK	Type of the course should be 'A' or 'NA', A- Assessed, NA-Not Assessed
coursefee	NUMBER		Fee for the course

Table Name : EXAM

Column Name	Data type and Size	Constraints	Description
examid	VARCHAR2(10)	PRIMARY KEY, CHECK	Unique exam id starts with 'E'

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A]

```
select learnerid,name from learner where learnerid in (select distinct learnerid from prebooking) and (name like '%e
n') or (email like 'd%')
```

B]

```
select substr(examid,2) id, examfee from exam where freeslot > 20 and examid in (select examid from prebooking)
```

C]

```
select a.learnerid,qualification from learner a inner join prebooking b on b.learnerid = a.learnerid group by a.learneri
d,qualification having count(a.learnerid) = 2
```

D]

```
select courseid,title,type,coursefee from course where duration >= 10 and coursefee = (select min(coursefee) from c
ourse)
```

E]

```
select l.name,nvl(to_char(coursefee),'NA') fee, nvl(id,'NB') pbid from learner l left outer join prebooking p on p.lear
nerid = l.learnerid left outer join course c on c.courseid = p.courseid
```

F]

```
select a.courseid,a.title,a.type from course a where a.coursefee > 1500 and a.coursefee < (select avg(b.coursefee) fro
m course b where b.type = a.type group by b.type)
```

G]

```
select id,name,title from prebooking p inner join learner l on l.learnerid = p.learnerid inner join course c on c.coursei
d = p.courseid where examid in (select examid from prebooking group by examid having count(examid) = (select m
ax(count(examid)) from prebooking group by examid) )
```

H]

```
select p.courseid,p.learnerid,p.examid
from prebooking p
inner join prebooking p1 on p.courseid = p1.courseid and p.id <> p1.id
inner join course c on c.courseid = p.courseid
where type = 'A'
and p.learnerid <> p1.learnerid
and p.examid <> p1.examid
```