**DBMS LAB MANUAL**

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**College: MITS**

http://www.scribd.com/doc/54257212/Dbms-New-Manual

**PRACTISING QUERIES**

1)create table sailors(sid number, sname varchar2(10),rating number,age number);

insert into sailors values(20,'Dustin',6,45);

insert into sailors values(21,'Lubber',8,25);

insert into sailors values(22,'Rusty',10,26);

insert into sailors values(23,'Yuppy',9,36);

insert into sailors values(24,'Guppy',3,16);

insert into sailors values(25,'John',4,18);

insert into sailors values(26,'Kiran',5,19);

2)create table reservs(sid number, bid number,day date);

insert into reservs values(22,101,'02-Jan-2010');

insert into reservs values(23,102,'02-Feb-2010');

insert into reservs values(24,103,'02-Mar-2011');

insert into reservs values(25,104,'02-Apr-2011');

insert into reservs values(26,105,'02-May-2011');

insert into reservs values(28,106,'02-Jun-2011');

3)create table boat(bid number, bname varchar2(10),color varchar2(10));

insert into boat values(101,'Interlake','blue');

insert into boat values(102,'Interlake','red');

insert into boat values(103,'Clipper','green');

insert into boat values(104,'Marine','red');

insert into boat values(105,'redsun','white');

insert into boat values(106,'Bluemoon','black');

4)select \* from sailors

SID SNAME RATING AGE

20 Dustin 6 45

21 Lubber 8 25

22 Rusty 10 26

23 Yuppy 9 36

24 Guppy 3 16

25 John 4 18

26 Kiran 5 19

5)select \* from reservs

SID BID DAY

22 101 02-JAN-10

23 102 02-FEB-10

24 103 02-MAR-11

25 104 02-APR-11

26 105 02-MAY-11

28 106 02-JUN-11

6)select \* from boat

BID BNAME COLOR

101 Interlake blue

102 Interlake red

103 Clipper green

104 Marine red

105 redsun white

106 Bluemoon black

7) select \* from sailors S, reservs R

8)select \* from sailors S cross join reservs R

9)select \* from sailors S natural join reservs R

10)select \* from sailors S join reservs R using (sid)

11)select \* from sailors S,reservs R

where S.sid=R.sid

12)select \* from sailors S join reservs R on S.sid =R.sid

13) select \* from sailors S left outer join reservs R on S.sid=R.sid

14)select \* from sailors S right outer join reservs R on S.sid=R.sid

15)select \* from sailors S full outer join reservs R on S.sid=R.sid

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**WEEK-5 PROGRAMMES :**

1. create table BUS(Busno varchar2(10) primary key,Source varchar2(10),Destination varchar2(10));
2. insert into BUS values('AP10Z 6226','HYD','CHNN');
3. insert into BUS values('AP06 1226','HYD','BGL');
4. insert into BUS values('AP03 3645','PUNE','HYD');
5. insert into BUS values('TN03 8645','CHNN','HYD');
6. insert into BUS values('KN03 4635','BGL','DELHI');
7. create table PASSENGER(Pnr\_No number primary key,Ticket\_No number,Name varchar2(10),Age number,Sex varchar2(7) not null check(Sex in ('Male','Female')),PPNO varchar2(15));
8. insert into PASSENGER values(1626,536,'JHONSON',23,'Male','LUXURY');
9. insert into PASSENGER values(1524,632,'JONES',19,'Male','LUXURY');
10. insert into PASSENGER values(1129,232,'WILLIAMS',39,'Male','SUPLUX');
11. insert into PASSENGER values(1626,432,'JAMES',24,'Male','DULUX');
12. insert into PASSENGER values(1524,438,'SMITHA',24,'Female','DULUX');
13. insert into PASSENGER values(1129,938,'SWATHI',25,'Female','LUX');
14. insert into PASSENGER values(1389,439,'SUGUN',21,'Male','LUX');
15. create table RESERVATION(Pnr\_No number,Journey\_Date date,No\_Of\_Seats number,Address varchar2(25),Contact\_No number(9),Status char(5) check(Status in ('Yes','No')));
16. insert into RESERVATION values(1626,'12-JAN-2010',3,'NEHRU RD HYD',8008058439,'Yes');
17. insert into RESERVATION values(1524,'12-FEB-2010',2,'RAM NGR HYD',8008058479,'Yes');
18. insert into RESERVATION values(1129,'13-JUN-2010',6,'SAI NGR BGL',8008058679,'Yes');
19. insert into RESERVATION values(1389,'13-AUG-2011',8,'GANDHI RD CHNN',9448058679,'No');
20. insert into RESERVATION values(1626,'12-DEC-2011',3,'SAGAR RD HYD',8008058439,'No');
21. insert into RESERVATION values(1524,'12-SEP-2011',2,'SYAM NGR DEL',8008058481,'Yes');
22. create table CANCELLATION(Pnr\_No number,Journey\_Date date,No\_Of\_Seats number,Address varchar2(25),Contact\_No number(9),Status char(5) check(Status in ('Yes','No')));
23. insert into CANCELLATION values(1626,'12-JAN-2010',3,'NEHRU RD HYD',8008058439,'Yes');
24. insert into CANCELLATION values(1524,'12-FEB-2010',2,'RAM NGR HYD',8008058479,'Yes');
25. insert into CANCELLATION values(1129,'13-JUN-2010',6,'SAI NGR BGL',8008058679,'Yes');
26. insert into CANCELLATION values(1389,'13-AUG-2011',8,'GANDHI RD CHNN',9448058679,'No');
27. insert into CANCELLATION values(1626,'12-DEC-2011',3,'SAGAR RD HYD',8008058439,'No');
28. insert into CANCELLATION values(1524,'12-SEP-2011',2,'SYAM NGR DEL',8008058481,'Yes');
29. create table TICKET(Ticket\_No number primary key,Journey\_Date date,Age number,Sex varchar2(7) not null check(Sex in ('Male','Female')),Source varchar2(10),Destination varchar2(10))
30. INSERT INTO TICKET VALUES(536,'12-JAN-2010',23,'Male','HYD','CHNN')
31. INSERT INTO TICKET VALUES(938,'21-DEC-2011',25,'Female','BGL','HYD')

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TICKET\_NO** | **JOURNEY\_DATE** | **AGE** | **SEX** | **SOURCE** | **DESTINATION** |
| 536 | 12-JAN-10 | 23 | Male | HYD | CHNN |
| 632 | 12-MAR-10 | 19 | Male | PUNE | CHNN |
| 232 | 12-JUN-10 | 39 | Male | BGL | HYD |
| 432 | 16-JUN-11 | 24 | Male | BGL | DEL |
| 438 | 21-DEC-11 | 24 | Female | BGL | DEL |
| 938 | 21-DEC-11 | 25 | Female | BGL | HYD |

Week 6:

1)SELECT(this is practised in last week)

2)INSERT (this is practised in last week)

3) UPDATE:

Ex\_1) update passenger set ppno='NON A/C' where ppno='LUX'

Ex\_2) update passenger set ppno='A/C' where ppno='LUXURY

4)DELETE:

Ex) delete passenger where ppno ='SUPLUX

WEEK\_7

1. Display unique PNR\_no for all passengers?
2. *select DISTINCT(PNR\_NO) from passenger*
3. Display all the names of male passenger?
4. *select P.name from passenger P*

*where P.SEX='Male'*

1. Display the ticket numbers and names of all the passengers?
2. *select P.ticket\_no,P.name from passenger P*
3. Find the ticket numbers of the passengers whose name start with ‘A’ and ends with ‘H’.?
4. select P.ticket\_no from passenger P where P.name = 'A%H';
5. Find the names of passengers whose age is between 30 and 45.?
6. select P.name from passenger P where P.age >= 30 and P.age <= 45;
7. Display all the names of passengers whose name starts with ‘A’ ?.
8. select P.name from passenger P where P.name = 'A%';
9. Display the sorted list of passengers names?
10. select P.name from passenger P order by P.name;
11. Display the Bus numbers that travel on Sunday and Wednesday?
12. Select B.busno from bus B where journey\_day = ‘Sunday’ and ‘Wednesday’;

Note: please add the ‘journey\_day’ column to the Bus table

1. Display the details of the passengers who are all travelling either in A/C or NON\_AC?
2. *select \* from passenger where ppno in('A/C','NON A/C')*

**WEEK8 and WEEK9:**

1. write a Query to display the information present in the Reservation and cancellation tables?
2. select \* from reservation

union

select \* from cancellation

1. Display the number of days in a week on which the 9w01 bus is available?
2. select count(distinct(journey\_day))

from bus

where busno = '9W01';

1. Find number of tickets booked for each pnr\_no using group by clauses?
2. select pnr\_no, count(\*)

from passenger

group by pnr\_no;

1. Find the distinct pnr\_no that are present?
2. select distinct(pnr\_no)

from passenger

1. Find the number of tickets booked in each class where the number of seats is greater tha 1?
2. select ppno, count(\*)

from passenger

group by ppno

having count(\*) > 1

1. Find the total number of cancelled seats?
2. select sum(no\_of\_seats) as cancelled\_seats

from cancellation

where status ='Yes'

1. Write a Query to count the number of tickets for the buses, which travelled after the date ‘14/3/2009’?
2. select journey\_date, count(\*)

from reservation

where journey\_date > '14-MAR-2009'

group by journey\_date