Lab Exercises

CHAPTER 1

1. Create table category_header with the following structure.

   Cat_code number(5), cat_desc varchar2(20)

2. Create table route_header for the given column definitions.

Column Name	Datatype
route_id	number(5)
route_no	number(5)
cat_code	number(5)
origin	varchar2(20)
Destination	varchar2(20)
fare	number(7,2)
distance	number(3)
capacity	number(3)

3. Create table place_header whose column definitions are provided in the table below.

Colmn Name	Datatype
place_id	number(5)
Place_name	varchar2(20)
Place_address	varchar2(20)
Bus_station	varchar2(10)

4. Create another table fleet_header with the following column descriptions.

Colmn Name	Datatype
fleet_id	number(5)
day	date
route_id	number(5)
cat_code	number(5)

5. Create table ticket_header with the given columns.

Colmn Name	Datatype
fleet_id	number(5)
ticket_no	number(5)
doi	date
dot	date

time_travel	char(8)
board_place	varchar2(20)
origin	varchar2(20)
destination	varchar2(20)
adults	number(3)
children	number(3)
total_fare	number(7,2)
route_id	number(3)

6.   Create table ticket_detail, the structure of which is given in the table below.

Colmn Name	Datatype
Ticket_no	Number5)
Name	Varchar2(20)
Sex	Char(1)
Age	Number(3)
Fare	Number(5,2)

7.   Insert into the table category_header the following values:

Cat_code	Cat_desc
01	super deluxe
02	deluxe
03	super fast
04	normal

8.   Insert into the table route_header the following values:

Route_id	route_no	cat_code	origin	Destination	fare	distance	capacity
101	33	01	madurai	Madras	35	250	50
102	25	02	trichy	Madurai	40	159	50
103	15	03	thanjavur	Madurai	59	140	50
104	36	04	madras	Bangalore	79	375	50
105	40	01	bangalore	Madras	80	375	50
106	38	02	madras	Madurai	39	250	50
107	39	03	hyderabad	Madras	50	430	50
108	41	04	madras	Cochin	47	576	50

9. Insert into the table place_header the following values:

Place_id	Place_name	Place_address	Bus_station
01	Madras	10, ptc road	parrys
02	Madurai	21, canalbank road	kknagar
03	Trichy	11, first cross road	bheltown
04	Bangalore	15, first main road	cubbon park
05	Hyderabad	115, lake view road	charminar
06	Thanjavur	12, temple road	railway jn

10. Insert into fleet_header the following values:

Fleet_id	Day	Route_id	Cat_code
01	10-apr-96	101	01
02	10-apr-96	101	01
03	10-apr-96	101	01
04	10-apr-96	102	02
05	10-apr-96	102	03
06	10-apr-96	103	04

11. Insert into ticket_header the following values:

Fleet_Id	Ticket_No	Doi	Dot
01	01	10-apr-96	10-may-96
02	02	12-apr-96	05-may-96
03	03	21-apr-96	15-may-96
04	04	25-apr-96	25-may-96
05	250	30-apr-96	22-may-96

Time_travel	Board_place	Origin	Destination
15:00:00	parrys	madras	Madurai
09:00:00	kknagar	madurai	Madras
21:00:00	cubbonpark	bangalore	Madras
10:00:00	charminar	hyderabad	Madras
15:00:00	parrys	madras	Cochin

Adults	Children	Total fare	Route_id
1	1	60	101
2	1	60	102
4	2	400	101
10	0	500	103
2	2	141	103

12. Insert into ticket_detail the following values:

Ticket_no	Name	Sex	Age	Fare
01	charu	f	24	14.00
01	latha	f	10	15.55
02	anand	m	28	17.80
02	gautham	m	28	16.00
02	bala	m	9	17.65
05	sandeep	m	30	18.00

13. Alter the table route_header to add a column comments with datatype as long.

14. Describe route_header

15. Display only distinct category code from the table route_header order in the descending manner.

16. Alter the table to modify the length of the column distance in table route_header to 4.

17. Grant the alter, update, insert privileges to your friend on the table route_header.

18. Revoke the above privileges.

19. Create a table route_detail

20. Insert into the table route_detail the following rows:

Route_id	place_id	nonstop
105	01	n
012	02	s
106	01	s
108	05	n

21. Create a savepoint s1.

22. Insert into the above table the following values: 106,02,n.

23. Rollback to savepoint s1.

24. Commit the changes.

25. Change the nonstop to "n" of the route_detail where the route_id is 102.

26. Create the savepoint s2.

27. Delete the row whose route_id is 102.

28. Rollback to savepoint s2.

29. Commit the changes.

CHAPTER 2

1. Display only those routes that originate in madras and terminate at cochin.

2. Update the table route_header to set the distance between madras and madurai to be 300.

3. Delete only those rows that have the destination as bangalore and the origin as madras.

4. Display only those rows from route_header whose origin begins with 'm'.

5. Display only those rows whose fare ranges between 30 and 50.

6. Display the fare and the origin for those route_no which are greater than 15.

7. Display all details of a place whose name begins with 'm'.

8. Display the details of places whose names begins with 'a'.

9. Create a pseudo table with the same structure as the table category_header and insert rows into the table using the select clause.

10. Display the date two months after the date of issue of the ticket.

11. Display the last date of the month in the date of travel.

12. Display the months between the date of travel and the date of issue.

13. Display the next occurrence of 'Friday' to the date of travel.

14. a. Display the rounded date in the year format from the day in the fleet header.
    b. Display the rounded date in the month format from the day in the fleet header.
    c. Display the rounded date in the day format from the day in the fleet header.
    d. Display the rounded date from the day in the fleet header.

15. Display the date truncated upto the day,month,year from the day in fleet header.

16. Display the greatest day between the date of issue and the date of travel.

17. Display the date 31 days from the day.

18. Display the date 60 days before the day.

19. Convert the first letter of name into capitals.

20. Convert the names into the upper case.

21. Convert all the place names into lower case.

22. Display the first three characters of the place name where the name is bangalore.

23. Display the last three characters of the place name where the name is hyderabad.

24. Display only those place names that begin with 'm' and replace them with 'v'.

25. Display only 3 characters from the third characeter in the names of the traveller.

26. Replace the "a's" present in the place name with 'e'.

27. Display the rounded value of the total fare upto 2 characters.

28. Display the total fare such that it contains no decimal places.

29. Display the system date in the format mentioned below "27th of October 1996".

30. Display "20th september 1996" in the date format.

31. Insert a row into category_header such that the description is null and display the null as zero.

32. Give the average of the total fare.

33. Who has paid the highest fare ?

34. Which bus runs for the minimum distance?

35. Give the total collection of the fare.

36. Give the total number of people who have travelled so far group by the ticket no.

37. Change the day of travel from Sunday to Wednesday in the fleet_header table.