DBS LAB END EXAM

Create the following Vehicle Service database which store the different parts details and parts used in the service of different customer vehicles:

Schema:

Part(PartNo, PartName, VehicleType, UnitPrice, SalesPrice)

Service(ServiceNo, PartNo, ServiceDate, CustomerNo, Qty)

Constraints: i. Vehicle Type should be 'V1', 'V2', 'V3', 'V4', or 'V5'

- ii. UnitPrice and SalesPrice should be greater than zero
- iii. PartNo, FK in Service refers to PartNo, PK in Part

Data:

Part					Service				
1	P1	V1	10	12	1	1	01-Jan-17	C1	5
2	P2	V2	100	110	1	3	01-Jan-17	C1	4
3	Р3	V1	150	175	2	3	05-Feb-18	C2	10
4	P4	V3	200	250	3	1	15-May-18	C3	9
5	P5	V2	75	90	4	1	03-Jun-19	C1	5

(Table creation with given constraints is 3 marks and inserting values is 1mark =4M)

- A. Write the following queries in SQL:
 - i. List the Part Names which are not used to service the vehicle of any customer. (2M)
 - ii. List the customer number who has got his vehicle serviced maximum number of times. (4M)
 - iii. List the customer number whose vehicle service used all the parts of vehicle type V1.(2M)
- B. Write a PL/SQL program to find the total profit done in the sales of a given part number in the service of different customer vehicles. Raise an exception for invalid part number. (8M)