

DATABASE MANGEMENT SYSTEM

MINORS

Lab 6 – Aggregate Function

NAME : SHAKTHA SHETTY

SRN : PES1UG20EC336

SECTION & DEPT : F & ECE

1] Find the Average Price of the Parts.

```
MariaDB [pes1ug20ec336]> SELECT AVG(Price) FROM Parts;
+-----+
| AVG(Price) |
+-----+
| 2189.621667 |
+-----+
```

2] Determine the salesperson ID who has Amount greater than average Amount.

```
MariaDB [pes1ug20ec336]> SELECT i.salespersonid FROM Invoice AS i WHERE i.total_bill > (SELECT AVG(i.total_bill) FROM Invoice AS i);
+-----+
| salespersonid |
+-----+
| 103 |
+-----+
1 row in set (0.006 sec)
```

3] Find sum, maximum, minimum, average and count of **Total_Bill** in the table Generate_Invoice.

```
MariaDB [pes1ug20ec336]> SELECT MAX(Total_Bill), MIN(Total_Bill), SUM(Total_Bill), AVG(Total_Bill), COUNT(Total_Bill) FROM Invoice;
+-----+-----+-----+-----+-----+
| MAX(Total_Bill) | MIN(Total_Bill) | SUM(Total_Bill) | AVG(Total_Bill) | COUNT(Total_Bill) |
+-----+-----+-----+-----+-----+
| 908907.87 | 78900.90 | 1450330.61 | 241721.768333 | 6 |
+-----+-----+-----+-----+-----+
1 row in set (0.003 sec)

MariaDB [pes1ug20ec336]> _
```

4] Retrieve all the details of parts which is having maximum price.

```

MariaDB [pes1ug20ec336]> SELECT * FROM parts WHERE price = (SELECT MAX(price) FROM parts);
+-----+-----+-----+-----+-----+
| P_ID | Description | Qty | Price | Service_ID |
+-----+-----+-----+-----+-----+
| 705 | Leg Guard | 101 | 6217.99 | 403 |
+-----+-----+-----+-----+-----+
1 row in set (0.004 sec)

MariaDB [pes1ug20ec336]> 

```

5] Retrieve all details of the parts whose price is greater than the average price of parts in the table

```

MariaDB [pes1ug20ec336]> SELECT * FROM Parts WHERE Parts.price > (SELECT AVG(price) FROM Parts);
+-----+-----+-----+-----+-----+
| P_ID | Description | Qty | Price | Service_ID |
+-----+-----+-----+-----+-----+
| 703 | Handle Bar | 4 | 2519.99 | 405 |
| 705 | Leg Guard | 101 | 6217.99 | 403 |
+-----+-----+-----+-----+-----+
2 rows in set (0.001 sec)

MariaDB [pes1ug20ec336]> 

```

6] Retrieve the count of the city of dealers.

```

MariaDB [pes1ug20ec336]> SELECT COUNT(*), city FROM dealer GROUP BY city;
+-----+-----+
| COUNT(*) | city |
+-----+-----+
| 10 | Bangalore |
| 3 | Chennai |
| 1 | hubli |
| 5 | Mumbai |
| 1 | udupi |
+-----+-----+
5 rows in set (0.001 sec)

MariaDB [pes1ug20ec336]> 

```

7] Display customer id and average amount for that customer whose bill count is more than one.

```

MariaDB [pes1ug20ec336]> SELECT i.cust_id, AVG(total_bill) FROM Invoice i, Customer c WHERE i.cust_id=c.cust_id GROUP BY (c.cust_id) HAVING COUNT(*)>1;
+-----+-----+
| cust_id | AVG(total_bill) |
+-----+-----+
| 201 | 120544.935000 |
+-----+-----+
1 row in set (0.003 sec)

MariaDB [pes1ug20ec336]> 

```

8] Retrieve model number, bike id, price of the bike whose service is not the first service.

```
MariaDB [peslug20ec336]> SELECT b.vin, model FROM service_ticket s, bike b WHERE s.vin=b.vin GROUP BY vin HAVING COUNT(*)>1;
+-----+
| vin | model |
+-----+
| 300 | CB500X |
+-----+
1 row in set (0.004 sec)

MariaDB [peslug20ec336]> _
```