**SQL Multi Row Function**

**Aggregate Functions – Answers**

select last\_name from customers where ROWNUM = 1 ORDER BY last\_name DESC;

--2

select AVG(monthly\_payment) from packages;

--3

select last\_name from customers where ROWNUM = 1 ORDER BY last\_name DESC;

--4

select count(pack\_id) from packages;

--5

Select count(\*) from customers;

--6

select count(DISTINCT state) from customers;

--7

select count(DISTINCT speed) from packages;

--8

select count(fax)from customers;

--9

select count(\*) from customers where fax is null;

--10

select MAX(monthly\_discount), MIN(monthly\_discount), AVG(monthly\_discount) from customers;

--11

select DISTINCT state, count(customer\_id) as Number\_of\_customers from customers GROUP BY state;

--12

select DISTINCT speed, AVG(monthly\_payment) from packages GROUP BY speed;

--13

select DISTINCT state, count(DISTINCT city) from customers GROUP BY state;

--14

select DISTINCT sector\_id, MAX(monthly\_payment) from packages GROUP BY sector\_id;

--15 a

select DISTINCT pack\_id, AVG(monthly\_discount) from customers GROUP BY pack\_id;

--15 b

select DISTINCT pack\_id, AVG(monthly\_discount) from customers GROUP BY pack\_id HAVING pack\_id = 22 OR pack\_id = 13;

--16

select DISTINCT speed, MAX(MONTHLY\_PAYMENT), MIN(MONTHLY\_PAYMENT), AVG(MONTHLY\_PAYMENT) from packages GROUP BY speed;

--17 a

select pack\_id, count(DISTINCT customer\_id) from customers GROUP BY pack\_id;

--17 b error

select pack\_id, count(customer\_id) from customers GROUP BY pack\_id HAVING monthly\_discount > 20;