

ASSIGNMENT 2

1) Show the contents of CUSTOMER and SALGRADE.

```
SELECT * FROM CUSTOMERS
```

CUST#	CUST_NAME	CITY	STATE
98	ABC Co.	Denver	CO
47	DEF Co.	Chicago	IL
876	GHI Co.	Provo	UT
540	JKL Co.	Los Angeles	CA
57	MNO Co.	Roselle Park	NJ

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```
SELECT * FROM SALGRADE
```

GRADE#	LOWSAL	HISAL
1	20	50
2	50	75
3	75	100
4	100	125
5	125	150
6	150	175
7	175	200

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2) List all employees in descending order by salary.

```
SELECT ENAME,SAL
FROM EMPLOYEES
ORDER BY SAL DESC
```

ENAME	SAL
SMITH	150
CHEN	120
LIU	100
FOONG	95
JONES	20
JAMES	20

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3) List all employees who have ON anywhere in their name.

```
SELECT ENAME
FROM EMPLOYEES
WHERE ENAME LIKE '%ON%'
```

ENAME
JONES
FOONG

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4) List all orders that have been shipped before they were ordered

```
SELECT *
FROM ORDERS
WHERE DATE_ > DATE_SHIPPED
```

ORDER#	CUST#	DATE_	DATE_SHIPPED	VALUE
34	876	06/15/2021	06/08/2021	471
38	632	06/20/2021	06/19/2021	384

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5) List all the employees who have total compensation that is less than the average total compensation for all employees.

```
SELECT * FROM
EMPLOYEES
WHERE (SAL+NVL(COMM,0)) < (SELECT AVG(SAL+NVL(COMM,0)) FROM EMPLOYEES)
```

EMP#	ENAME	DEPTNO	JOB	MGR	SAL	COMM
40	LIU	5	SALES MGR	30	100	-
50	JONES	5	SALES REP	40	20	50
60	JAMES	5	SALES REP	40	20	65
70	FOONG	6	MGR	30	95	-

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6) List the total, minimum, average and max salaries by department.

```
SELECT E.DEPTNO,
SUM(E.SAL) AS DEP_TOTAL, MIN(E.SAL) AS DEP_MINIMUM, ROUND(AVG(E.SAL),2) AS
DEP_AVG, MAX(E.SAL) AS DEP_MAXIMUM FROM EMPLOYEES E
GROUP BY E.DEPTNO ORDER BY E.DEPTNO
```

DEPTNO	DEP_TOTAL	DEP_MINIMUM	DEP_AVG	DEP_MAXIMUM
3	270	120	135	150
5	140	20	46.67	100
6	95	95	95	95

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7) By customer, list the percentage of orders that have been placed by that customer.

```
SELECT CUST#,(COUNT(CUST#) * 100)/(SELECT COUNT(*) FROM ORDERS) AS
PERC_ORDERS FROM ORDERS GROUP BY CUST#
ORDER BY CUST#
```

CUST#	PERC_ORDERS
47	14.2857142857142857142857142857143
98	14.2857142857142857142857142857143
543	14.2857142857142857142857142857143
632	14.2857142857142857142857142857143
876	42.8571428571428571428571428571429

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8) List all the employees who earned more commission than their managers.

```
SELECT E.EMP#, E.MGR
FROM EMPLOYEES E JOIN EMPLOYEES M ON E.MGR = M.EMP#
WHERE NVL(E.COMM,0) > NVL(M.COMM,0)
```

EMP#	MGR
50	40
60	40

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9) List all the employees who are not assigned to a valid department.

```
SELECT * FROM EMPLOYEES
WHERE DEPTNO NOT IN (SELECT DEPTNO FROM DEPARTMENTS)
```

EMP#	ENAME	DEPTNO	JOB	MGR	SAL	COMM
70	FOONG	6	MGR	30	95	-

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10) List all the departments that do not have any employees.

```
SELECT
DEPTNO,
DNAME
FROM DEPARTMENTS D
WHERE DEPTNO NOT IN (SELECT DEPTNO FROM EMPLOYEES)
```

DEPTNO	DNAME
1	FINANCE
7	MARKETING
2	MANUF

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