Student's Name :- Siddhant Negi
Course : - M.C.A. 1st year (Sec.C)

(Github Link) : https://github.com/siddhantnegi/DBMS

Assignment - 2

ALTER TABLE CLIENT_MASTER MODIFY Client_no NUMBER(6);

ALTER TABLE CLIENT_MASTER DROP COLUMN DOB;

ALTER TABLE PRODUCT_MASTER RENAME COLUMN Sell_Price to SellPrice;

ALTER TABLE PRODUCT_MASTER RENAME TO PRODUCT MASTER;

DROP TABLE CLIENT_MASTER AND PRODUCT_MASTER.

工

INSERT INTO CLIENT_MASTER (Client_No, Name, City, Pincode, State, Bal_Due) VALUES ('C00001', 'IVAN Bayross', 'Mumbai',

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INSERT INTO CLIENT_MASTER (clientNO., Name, 1。」k トーー5000

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Madras', 'Z80001', 'Tamil Nadu',

INSERT INTO CLIENT_MASTER (Client_No., Name, City, Pinco State, Bal_Due) VALUES ('C00003', 'Chhaya Bankar', 'Mumbai', '400057', 'Maharashtra', 5000);

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Assignment -3

```
INSERT INTO PRODUCT_MASTER (ProductNo, Description, Profitpercentage, Unitmeasure, Qtyonhand, SellPrice, Reorderlevel, CostPrice)
VALUES ('P00001', '1.44floppies', 5, 'Piece', 200, 350, 50, 250);

INSERT INTO PRODUCT_MASTER (ProductNo, Description, profitpercentage, Unitmeasure, Qtyonhand, SellPrice, Reorderleve, CostPrice) VALUES
('P03453', 'Monitors', 6, 'Piece', 150, 500, 50, 350);

INSERT INTO PRODUCT_MASTER (ProductNo, Description, profitpercentage, Unitmeasure, Qtyonhand, Sellprice, Reorderlevel, CostPrice) VALUES
('P06743', 'Mouse', 5, 'Piece', 100, 600, 20, 450);

SELECT NAME FROM CLIENT_MASTER;
SELECT NAME, CITY FROM CLIENT_MASTER;
SELECT DESCRIPTION "Available Products" FROM PRODUCT_MASTER;
SELECT * FROM CLIENT_MASTER WHERE CITY = 'Mumbai';
SELECT * FROM CLIENT_MASTER WHERE CLIENT_NO IN('C00001',
'C00002');
SELECT * FROM PRODUCT_MASTER WHERE DESCRIPTION IN ('1.44Drive',
'1.22Drive');
SELECT * FROM PRODUCT_MASTER WHERE SELLPRICE > 500; AND
SELECT * FROM CLIENT_MASTER WHERE CITY IN ('Mumbai', 'Delhi',
'Madras');
```

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```
AND
SELLPRICE <= 500;
```

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= '1.44floppies';

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SELECT ProductNo , Description, Sellprice * 15 As " original selling
Price" FROM PRODUCT_MASTER WHERE sellprice > 150;

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し丁にe '—a %.';

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こらしCC.1 * FROM PRODUCT_MASTER ORDER BY Description;
SELECT COUNT (Description) "Total Product" FROM PRODUCT_MASTER

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Sい-「0ー1 MIN (costprice) AS min_price , MAX (costprice) AS max_pri
PRODUCT_MASTER;

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Sellprice

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NULL,

Assignment - 4

HOT

C(CRTC TABLE EMPLOYEE (ID, NUMBER PRIMARY KEY Dee-TVARCHA

F_NAME VARCHAR2(20), L_NAME VARCHAR2(20), (10) Anegss

SALARY NUMBER (15,2), DOJ VARCHAR2(20), ADD 00)

MARRIED CHAR).

INSERT INTO EMPLOYEE (IO, F_NAME, L_NAME, DEPT, SALARY

DOJ, ADDRESS, MARRIED) VALUES (1, 'VINAY', 'KUMAR', 'MCA'

25000, '27-09-2001', 'Ghaziabad', 'Y');

INTOctyecoyee (go, F-HAMC L -NAME DEPT , SALARY, DOT/

AODRess 7MJARR neo) (L, 'i , 'VERMA', t mc,q' ,

'5000

t 7 to -20-04 " Mee

%seg-T GNPLOYE€ CID F_NAME, L_NAME, DEPT, SALARY,

DOJ Addrem, married) (3, 'Akash', 'singh', 'CS, 20000,

15-01-2005' . 'KANPUR'

CT * FROM EMPLOYEE WHERE ADDRESS = 'Ghaziabad';

CT DISTINCT DEPT FROM EMPLOYEE;

CT ID, F_NAME || ' ' || L_NAME AS "FULLNAME", DEPT

c3éceCT

'o Cuecm lg M(RCoyce,•

INITCAP (F_NAME) || 'is working in' || UPPER (Dept) ||

ID, F_NAME |

'department' As DETAILS FROM EMPLOYEE; cmcoyec•;

SELECT F_NAME || ' ' || L-NAME AS NAME

DOT > '15-01-2005'; peoj[q]t EMPLOYEE tot-vec

CYLE

scr 2 2;

Name, SALARY * 12 As

' , It

```
SELECT *, SALARY + 300 AS "Gross Salary" FROM EMPLOYEE;
SELECT * FROM EMPLOYEE WHERE SALARY BETWEEN 15000 AND

SELECT * FROM EMPLOYEE WHERE DOJ BETWEEN TO_DATE
27 '09-2001', 'DD-MM-YYYY' -
                                    ή  TO_DATE ('II-δZ -2019,
'DD-MM-YYYY');
SELECT * FROM EMPLOYEE WHERE DEPT = 'MCA' OR DEPT = 'CS';
EUCC-T  * FROM EMPLOYEE WHERE DEPT 1 = 'MCA
SELECT * FROM EMPLOYEE WHERE F_NAME LIKE 'R%';
SELECT * FROM EMPLOYEE WHERE F_NAME LIKE 'RO%';
SELECT * FROM EMPLOYEE WHERE F_NAME LIKE 'R____';
SELECT * FROM EMPLOYEE WHERE F_NAME LIKE '_O%';
SELECT * FROM EMPLOYEE WHERE MARRIED = 'Y';
SELECT * FROM EMPLOYEE WHERE MARRIED = 'N';
SELECT * FROM EMPLOYEE WHERE MARRIED
    * FROM EMPLOYEE WHERE MARRIED = 'Y' AND DEPT = 'MCA'
```

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Assignment - 5

REATET (Γ_NAM6 VAQCHA22 (50),

ARCHAR2(60), L- ΝΛΜΙξ VARCHAR2 (56), ge c (I)
(Νυ VARCHAR2(50). AREA VARCHAR2 (50), Houçp Ao VARCHAR2 (ιο)

DN NUMBER);

('Roll, F_NAME, M_NAME, L_NAME, SEC, CITY, AREA,
(1, 'Akash', 'Kumar', 'Jian' 'A' 'Ghaziabad'

Houeει'4ο »τν)

'Rakesh Marg', 265 1).

INSERT INTO students (ROll, F_NAME, M_NAME L _ N,+ME SE-%CITY,
AREA, HOUSE NO, DIV) VALUES (2, 'MANAV', 'MOHAN', 'SHARMA' 'A'
'Ghaziabad', 'Raj Nagar', 'D-

ROLL, F_NAME || ' ' II t-1-N6ME II' ' || L_NAME AS 'NAME'
FROM STUDENTS;

SELECT ROLL, F_NAME || ' ' || M_NAME || ' ' || L_NAME AS 'NAME'
HOUSENO ||', ' || Area || ', || CITY As "ADDRESS" FROM STUDENTS

SELECT ROLL, SUBSTR (F_NAME, 1, 1) || '.' || SUBSTR (M_NAME, 1, 1)
|| ' ' || L_NAME AS "NAME" FROM STUDENTS;

SELECT * FROM STUDENTS ORDER BY SEC ASC;

* FROM:ιτυΌ€ΝΤçORDE
SELECT * FROM STUDENTS

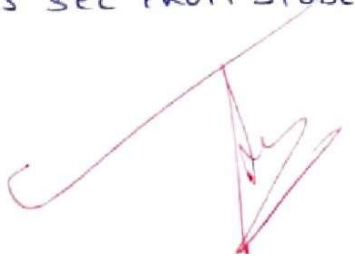
SEC, F_NAME;

SELECT CITY FROM ~~RESIDENT~~ STUDENTS;

SELECT ROLL, F_NAME, CASE WHEN DIV = 1 THEN 'FIRST'

DIV -z I THEN 'SECOND' WHEN DIV = 3 THEN 'THIRD' WHEN Όιν 20
'FAIL' ELSE 'NOT AWARDED' END AS Division FROM STUDENTS;

S&vS-CT ιF_NAME, CASE WHEN SEC = 'A' THEN '1'
SEC = 'B' THEN '2' END AS sec FROM STUDENTS;



Assignment - 6

CLIENT_MASTER (Client_No VARCHAR2(6)

Геглмнеч KEY, NAME VARCHAR2(20) нот нош, ст ту упеснРК2 (его)

С неск гуту ' , я ноты, , 'Chennai')) Нонеек(с}

VARCHAR2(20), BalDue Ное,1В€К (10,2), Cma;t vpecHRR2tgo) ондо€) ,

PRODUCT_MASTER (Product_Но САРСНЮР2 6) t^{O}R1f-

dAk-y Name чАеенйС2 за) Нот нош , ОН1т YEASURE VARCHAR2 (го)

NOTNULL, Qtyonhand ћцимв€-а (е) Нотнош , Re&slerltvd »tvtqat-e [з)

NOT NULL, SELLPrice NUMBER(8,2) воуВ{-е (д,2) Нот Н ид С Нёсе gdt

Cost Price NUMBER (8,2) NOT NULL >0),

(Qty on hand >= Reorderlevel); Енак- (сокВ>71'се >0), еИёё-Е

REATE TABLE SALESMAN_MASTER (Salesmanno VARCHAR2(6) PRIMAR

:EY CHECK (Salesmanno like 'S%.'), Sal_name VARCHAR2(20) NOT

NULL, Address VARCHAR2(40) NOT NULL, City VARCHAR2(20), State

VARCHAR2(20), Pincode NUMBER(6), Sal_Amount NUMBER(8,2)

NOT NULL CHECK (Sal_Amount >0), Tgt_to_get NUMBER(8,2)

NOT NULL CHECK (Tgt_to_get >0), Ytd_Sales NUMBER(8,2) NOT

NULL CHECK (Ytd_Sales >0), Remarks VARCHAR2(30));

SALES_ORDER (Order_No VARCHAR2(6)

(order_NO LIKE '0%'), Order_Date

NOT NULL , Client_No VARCHAR2(6), Dely_add VARCHAR2(25),

Saleman_No VARCHAR2(6), Dely_type CHAR(1) DEFAULT 'F'

CHECK (Dely_type IN ('P', 'F')), Billed_yn CHAR(1) CHECK

(Billed_yn IN ('Y', 'N')), Dely_Date DATE, Order_Status

VARCHAR2(10) CHECK (orderstatus IN ('In Procen (IP)', 'Fulfilled

(F)', 'cancelled(C)')), FOREIGN KEY (Client_No) REFRENCES

CLIENT_MASTER (Client_No), FOREIGN KEY (Saleman_No)

REFRENCES SALESMAN_MASTER (Salesman_No), CHECK (Dely_Date

>= OrderDate));

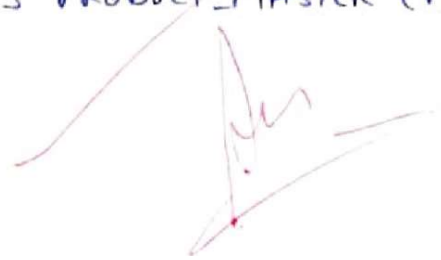
CRC41•re SALES_ORDER_DETAILS C C)

Product- Mo VA-RtH9C2 (e) Qty_order NI)MBCQ I e) , Qty_di

NUMBER1 8), MAKY (Order_NO, Product- Mo) l'ôRel'c,MKEY

(Mo) REFRENCES SALES_ORDER (Order_No) FOREIG

REFRENCES PRODUCT_MASTER (Prod -MASTCI?



Product_Ho)

ta for CLIENT_MASTER

ISERT INTO CLIENT_MASTER (Client_No, Name, CITY, Pincode, State, Baldue, Email) Values ('C00001', 'Pankaj Sharma', 'Delhi', 400054, 'Delhi', 15000, 'pk@gmail.com');

INSERT INTO CLIENT_MASTER (Client_No, Name, CITY, Pincode, State, Baldue, Email) values ('C00002', 'Yogesh Sharma', 'Delhi', 78000l, 'Delhi', 0, 'ys@gmail.com');

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ta for Product_MASTER

PRODUCT_MASTER

INSERT INTO (Product_No, Name, UnitMeasure, Qtyonhand, Reorderlevel, Sellprice, Costprice) values ('P00001', 'T-Shirt', 'Piece', 200, 50, 350, 250);

INSERT INTO PRODUCT_MASTER (Product_No, Name, UnitMeasure, Qtyonhand Reorder level, Sellprice, Costprice) VALUES ('P03453', 'Shirt', 'Piece', 15

Salesman_Master

INSERT INTO SALESMAN_MASTER (Salesman_No, Sal_name, Address, city, Pincode, State, Sal_Amount, Tgt_to_get, ytd_Sales, Remarks) VALUES ('S00001', 'Kiran', 'A/14 worli', 'Mumbai', 400002, 'Mah', 3000, 100

50 t),

INSERT INTO SALESMAN_MASTER (Salesman_No, Sal_name, Address, city, Pincode, State, Sal_Amount, Tgt_to_get, ytd_sales, Remarks) VALUES ('S 00

Amount 'Mah' 3000, 200, 100, 'G

Data for Sales_order Table

```
INSERT INTO SALES_ORDER (Order_NO, Order_Date, Client_NO, Dely_type,
Billed_yn, Saleman_NO, Dely_Date, Order_Status) VALUES ('019001',
TO_DATE('12-Jan-21','DD-MON-YY'),'C00001','F','N','S00001',
TO_DATE('20-Jan-21','DD-MON-YY'),'IP');

INSERT INTO SALESORDER (Order_No, order_Date, client_No, Dely_type,
Billed_yn, Saleman_No, Dely_Date, Order_Status) VALUES ('019002',
TO_DATE('25-Jan-21','DD-MON-YY'),'C00002','P','N','S00002',
TO_DATE('27-Jan-21','DD-MON-YY'),'C');
```

DATA for sales_order Details

```
INSERT INTO SALES_ORDER DETAILS (Order_No, Product_No, Qty_Order,
Qty_disp) VALUES ('019001','P00001',4,4);

INSERT INTO SALES_ORDERDETAILS (order_No, Product_No, Qty_Order,
Qty_disp) VALUES ('019002','P07965',2,1);
```

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Assignment

- SELECT ADD_Months (SYSDATE, 3) AS "MONTH"

  LAST_DAY (SYSDATE) FROM dual;

  SELECT MONTHS_BETWEEN (SYSDATE, TO_DATE('2023-01-01', 'MM-DD')) AS "MONTHS" FROM dual;

- SELECT ROUND (SYSDATE, 'MONTH') AS "ROUNDED DATE" DUAL;

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YYYY-

CREATE TABLE EMPLOYEE (

EMpid Varchar2 (3) PRIMARY KEY CHECK (Empid LIKE 'E %'),

VARCHAR2 (25) NOT NULL,

0 ορ. ΟΛ 1 τ-I0T νιυι-ν

DOJ DATE NOT NULL CHECK (DOJ > DOB),
Salary NUMBER (7) NOT NULL CHECK (salary >0),
Adhar NUMBER (12) UNIQUE CHECK (LENGTH (Adhar) = 12)

EMPLOYEE WHERE DOJ = TO_DATE ('2015-03-15', 'YYYY-MM-DD');

EMPLOYEE TO_CHAR (DOJ, 'MM') = '01'

EMPLOYEE TO_CHAR (DOJ, 'YYYY') = '2019'

Hiredate

```
LECT ENAME, TOCHAR (DOJ, 'Month DD, YYYY') A
OM EMPLOYEE;
LECT * FROM EMPLOYEE WHERE DOJ < TODATE
YYYY - MM - DD');
```

(' 20IE -oI -

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EMPLOYEE

DOJо€зс;

,ROUND (MONTHS, BETWEEN (Смяк DOJ

,

Experience FROM EMPLOYEE;

FROMе вееомес (к) нс-е€ (дедом, 2) =1

EMPLOYEE WHERE (EmpId = 'E01' or EmpId = 'E01'

NDТое сник (DOJ ;'YYYY') = '1991';

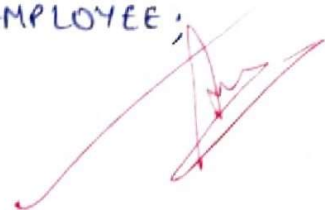
EMPLOYEE WHERE TO_CHARе ьот «мю ,)с» 02 '

.дсд.СС\ 'Happy Birthday' || Ename MESSAGE FROM EMPLOYEE

TO_CHAR (DOB,' нв- во то_енае (SYSDATE , НН-ро')

nameTo i)og Г) Ь+ъ НоиНА ЧYYY

Date_of_Birth EMPLOYEE;



Assignment – 8

C.cust_name, FROM Salesman ȚOItA

Customer C ON S.city = C.city AND S.Salesman_id =

C.Salesman_id;

O.ord_no, O.purch_amt, C.cust_name, C.c

Order O JOIN customer C ON O.customer_id

C.

a

customer_id WHERE O.purch- C- Țtô ANC 2000;

S C-VECȚ g name AS Salesman_name, C.cust-

Salesman S JOIN customer C ON S.salesman_id = C.Salesman_i

C.cust_name FROM Customer C JOIN Salesman

C.Salesman_id = S.Salesman_id WHERE S.Commission

```
SELECT c.cust_name FROM customer C JOIN Saleman S ON
C.Saleman_id = S.Saleman_id WHERE S.City <> C.city AND
S.comission > 0.12
```

```
SELECT o.order_no, O.ord_date, O.purch_amt, C.cust_name,
S.name, S.comicion FROM order O JOIN customer C ON
O.customer_Id = C.customer_id JOIN Saleman S ON
O.Saleman_id = S.Saleman_id;
```

```
c.cust_name FROM customer C LEFT JOIN
c.customer_id = O.customer_idOfC)ERBY C.cust_name
```

C.cust_name FROM customer LEFT JOIN
ON C.customer_id = O.customer_id

C.cust_name

C.cust_name, C.city, O.ord_no, O.ord_date, O.purch_
:om customer C LEFT JOIN orders O ON C.customer_
customer_id ORDER BY O.ord_date ASC;

c.cust_name, c.city, o.ord_no, o.ord_date, O.purch_amt

g., commision FROM customer C LEFT JOIN O
C.customer_id = O.customer_id ORDER BY O.order_date ASC

ame FROM Salesman S LEFT JOIN customer c_oN
Salesman_id = C.Salesman_id ORDER BY S.name

SELECT s.name, Count (c.customer_id), Count (o.order_no)
FROM Salesman S LEFT JOIN customer C ON S.Salesman_id =
C.Salesman_id LEFT JOIN orders O ON C.customer_id =
O.customer_id GROUP BY s.name ORDER BY S.name ASC;

SELECT s.name, Count (DISTINCT c.customer_id), Count
(O.ord:NO) FROM Salesman S LEFT JOIN customer C ON
S.salesman_id = C.Salesman_id WHERE C.grade IS NO
NULL OK O.ord_NO. is NULL

SCICCT *, C.* FROM item_mast
S.name

i rJ0fN COMPANY_Mast e on

Salesman_name , c.cust_name

Customer

i.PRo-eoM

= c.com_ID;

CTJ.PRo-NAFIE i.PRO_PRICE , C.COM_NPROM

- mainC ON I.PRO_COM C, co Me 1 0 •

SELECT c.com_NAME , AVG (i.PRO_PRICE) AS avg_Price FROM item_mast JOIN company_mast c on i.PRO_com = C.COM_ID GROUP BY C.COM_NAME;

c.com_NAME FROM item_mast i JOIN company_mast c ON i_PROM_COM =C, c(KourßYc.com_

(i.PRO_PRICE) > t 350,

SELECT c.COM_NAME, i.PRO_ID , MAX (i.PRO_ PRICE) FROM item.m

JOIN Company_Mast C ON I.PRO_COM = C.COM.ID GROUP BY C.COM_Name , i.PRO_ID ORDER BY Max_Price DESC;

SELECT e.* , d.* FROM emp_details e JOIN emp_department e.emp_dept = d.dept code;

SELECT c.emp_fname , e.emp_Lname , d.dept_name, d.dpt_ allotment FROM emp_details e JOIN emp_department d e. EMP_DEPT = d. DEPT_Code;

OJ

SELECT e.EMP_FNAME, e.emp_LNAME FROM emp_details e JOIN emp_department d ON e.EMP_DEPT = d.DEPT_CODE WHERE d.DPT_ALLOTMENT > 50000;

SELECT d.DEPT_NAME FROM emp_details e JOIN EMP_department d ON e.EMP_DEPT = d.DPT_CODE group BY d.DPT_NAME HAVING COUNT (e.EMP_IDNO) > 2;

Assignment - 9

(Purch - amt)

Se ECT AVG (Purch - amt) PROM ORDE

Salesman - id)

(Purch - amt)

MIN (Purch - amt) FROoRDees;

SELECT customer - id , MAX (Purch - amt)
customer - id ;

PROM DÉDt-P-s 4RouP

customer - id , ord - date , MAX (Purch - amt) FROM

e-ce CT GROUP BY customer - id , ord - date ;

Salesman - id , MAX (Purch - amt) FROM ORDERS

RA C-RC

ord - date = ' 2012 - 08 - 17 ' GROUP BY salesman - id ;

customer - id , ord - date , MAX (Purch - amt) FROM
GROUP BY customer - id , ord - date Having MAX

sectcr - amt) > 2000 ;

SELECT customer - id , ord - date , MAX (Purch - amt) FROM
RDERS WHERE Purch - amt BETWEEN 2000 and 6000
GROUP BY customer - id , ord - date ;

SELECT customer - id , MAX (Purch - amt) FROM ORDERS W
customer - id BETWEEN 3002 and 3007 GROUP BY
customer - id ;

W HER 6

COUNT (*) ord_date = '2011-

8&l€cy Γρυ-Y1το

S€leCT NOT E$^{II})^{II})$

Max (grade) FROM CUSTOMER

GROUP BY city;

8Eιε-ιτ (+) C-ROM

ςε--νε αουNI (+) item_mast WHERE PRO_PRICE 360;

T MAXCOOJ)FROM EMPLOYEE;

ELECTYI 'N CDOJ)FROM EMPLOYEE;

COUNT (DISTINCT DEPT) FROM EMPLOYEE;

COUNT (*) FROM EMPLOYEE WHERE DEPT='MCA';

DEPT, MAX (AVG (Salary)) FROM EMPLOYEE GROUP BY D

COUNT (*) FROM EMPLOYEE;

Dept, Count (*) FROM EMPLOYEE GROUP BY DEPT;

ΔY De#,

(TCA't€

3L

signment- 10

VARCHAR2(50)

J06NVARCHA

E WHERE(CIT)id I.

NAME, SALARY, JOBid

(102) ,

NAME, SALARY, Job id FROM EMPLOYEE WHERE SALARY

T MIN (salary) FROM EMPLOYEE);

FROM EMPLOYEE WHERE DOJ = (SELECT DOJ FROM

WHERE empid = 106);

* FROM EMPLOYEE WHERE DOJ > (SELECT DOJ FROM

WHERE empid = 102);

1/6/24