

**Information System Management Lab
BCOM 307**

Assignment #26

Submitted by:

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Enrollment No: 03914788818
Semester: B.Com(H) 5th Semester
Class: B.COM(H)
Section: B.Com 5A
Date of Submission: 12/11/2021

Submitted to:

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Assistant Professor, MAIMS



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Recognized by Bar Council of India; ISO 9001: 2015

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www.maims.ac.in

Department of Commerce

Academic Year: 2020-21

Semester: Vth

Assignment No. 26

Unit No:

Course/Subject Code: BCOM 307

Issue Date

Subject Title: Information System Management Lab

Last Date of Submission:

Instructions for Students:

1. **All Questions are Compulsory.**
2. The student should attach proper cover page for each assignment clearly mentioning the Assignment No.
3. Each assignment should be prepared by the student individually with proper explanation and screenshots.
4. A4 size ruled sheets should be used for the assignment.
5. Assignment pages should be serially numbered at the bottom of page.

During online education mode, upload scanned copy of the complete assignment including cover page latest by due date.

Question No.	Question	CO No.																																			
1	<p>Create a table with the given attributes :</p> <p>Table Name : Clients</p> <table><tr><th>Column_Name</th><th>Data Type</th><th>Size</th><th>Default</th><th>Attributes</th></tr><tr><td>CLIENT_NO</td><td>VARCHAR</td><td>6</td><td></td><td>Primary key/ first letter must start with C</td></tr><tr><td>NAME</td><td>VARCHAR</td><td>20</td><td></td><td>NOT NULL</td></tr><tr><td>CITY</td><td>VARCHAR</td><td>15</td><td></td><td></td></tr><tr><td>PINCODE</td><td>INTEGER</td><td></td><td></td><td></td></tr><tr><td>STATE</td><td>VARCHAR</td><td>15</td><td></td><td></td></tr><tr><td>BALDUE</td><td>INTEGER</td><td></td><td></td><td></td></tr></table>	Column_Name	Data Type	Size	Default	Attributes	CLIENT_NO	VARCHAR	6		Primary key/ first letter must start with C	NAME	VARCHAR	20		NOT NULL	CITY	VARCHAR	15			PINCODE	INTEGER				STATE	VARCHAR	15			BALDUE	INTEGER				CO1, CO2
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3	<div>Create the following table with the given attributes:</div> <div>Table Name: Products</div> <table><tr><th>Column Name</th><th>Data Type</th><th>Size</th><th>Default</th><th>Attributes</th></tr><tr><td>PRODUCT_NO</td><td>VARCHAR</td><td>6</td><td></td><td>Primary key/ first letter must start with P</td></tr><tr><td>DESCRIPTION</td><td>VARCHAR</td><td>15</td><td></td><td>NOT NULL</td></tr><tr><td>QTY_ON_HAND</td><td>INTEGER</td><td></td><td></td><td>NOT NULL</td></tr><tr><td>REORDER_LEVEL</td><td>INTEGER</td><td></td><td></td><td>NOT NULL</td></tr><tr><td>SELL PRICE</td><td>INTEGER</td><td></td><td></td><td>NOT NULL, CANNOT BE 0</td></tr><tr><td>COST PRICE</td><td>INTEGER</td><td></td><td></td><td>NOT NULL, CANNOT BE 0</td></tr></table>	Column Name	Data Type	Size	Default	Attributes	PRODUCT_NO	VARCHAR	6		Primary key/ first letter must start with P	DESCRIPTION	VARCHAR	15		NOT NULL	QTY_ON_HAND	INTEGER			NOT NULL	REORDER_LEVEL	INTEGER			NOT NULL	SELL PRICE	INTEGER			NOT NULL, CANNOT BE 0	COST PRICE	INTEGER			NOT NULL, CANNOT BE 0
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5	<p>Create the following table with the given attributes:</p> <p>Table Name: SALESMAN</p> <table><tr><th>Column_Name</th><th>Data Type</th><th>Size</th><th>Default</th><th>Attributes</th></tr><tr><td>SALESMAN_NO</td><td>VARCHAR</td><td>6</td><td></td><td>Primary key/ first letter must start with S</td></tr><tr><td>SALESMAN_NAME</td><td>VARCHAR</td><td>20</td><td></td><td>NOT NULL</td></tr><tr><td>CITY</td><td>VARCHAR</td><td>20</td><td></td><td></td></tr><tr><td>PINCODE</td><td>INTEGER</td><td></td><td></td><td></td></tr><tr><td>STATE</td><td>VARCHAR</td><td>20</td><td></td><td></td></tr><tr><td>SALES_AMOUNT</td><td>INTEGER</td><td></td><td></td><td>NOT NULL, CANNOT BE 0</td></tr></table>	Column_Name	Data Type	Size	Default	Attributes	SALESMAN_NO	VARCHAR	6		Primary key/ first letter must start with S	SALESMAN_NAME	VARCHAR	20		NOT NULL	CITY	VARCHAR	20			PINCODE	INTEGER				STATE	VARCHAR	20			SALES_AMOUNT	INTEGER			NOT NULL, CANNOT BE 0	CO1, CO2
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9	<p>Create the following table with the given attributes:</p> <p>Table Name: SALES_ORDER_DETAILS</p> <table><tr><th>Column_ Name</th><th>Data Type</th><th>Size</th><th>Default</th><th>Attributes</th></tr><tr><td>ORDER_ NO</td><td>VARCHAR</td><td>6</td><td></td><td>REFER SALES_ORDER</td></tr><tr><td>PRODUCT _NO</td><td>VARCHAR</td><td>6</td><td></td><td>REFER PRODUCT_MAS TER</td></tr><tr><td>QTY_ORD ERED</td><td>INTEGER</td><td></td><td></td><td></td></tr></table>	Column_ Name	Data Type	Size	Default	Attributes	ORDER_ NO	VARCHAR	6		REFER SALES_ORDER	PRODUCT _NO	VARCHAR	6		REFER PRODUCT_MAS TER	QTY_ORD ERED	INTEGER									
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ASSIGNMENT 26 - BASIC COMMANDS PRACTICE**Task 1 : Create a table with the given attributes :**Table Name : **Clients**

Column_Name	Data Type	Size	Default	Attributes
CLIENT_NO	VARCHAR	6		Primary key/ first letter must start with C
NAME	VARCHAR	20		NOT NULL
CITY	VARCHAR	15		
PINCODE	INTEGER			
STATE	VARCHAR	15		
BALDUE	INTEGER			

This task can be completed using the **CREATE TABLE** command. Along with the **Primary Key**, **Not Null** and **Check** constraints.

The screenshot shows a database management tool interface. The top toolbar includes icons for file operations, execution, and a 'Limit to 5000 rows' dropdown. The SQL editor contains the following code:

```
2
3 • create table clients (
4   client_id varchar(6) primary key check (client_id like 'C%' or client_id like 'c%'),
5   client_name varchar(20) not null,
6   city varchar(15),
7   state varchar(15),
8   pincode int,
9   baldue int
10 );
11
12 • desc clients;
```

Below the editor, the 'Result Grid' displays the table structure:

#	Field	Type	Null	Key	Default	Extra
1	client_id	varchar(6)	NO	PRI	NULL	
2	client_name	varchar(20)	NO		NULL	
3	city	varchar(15)	YES		NULL	
4	state	varchar(15)	YES		NULL	
5	pincode	int	YES		NULL	
6	baldue	int	YES		NULL	

Task 2: Insert the following values into the Clients table:

CLIENT_NO	NAME	CITY	PINCODE	STATE	BAL DUE
C0001	Ivan Bayross	Mumbai	400054	Maharashtra	15000
C0002	Mamta Muzumdar	Madras	780001	Tamil Nadu	0
C0003	Chhaya Bankar	Mumbai	400057	Maharashtra	5000
C0004	Ashwini Joshi	Banglore	560001	Karnataka	0

This task can be completed using the **INSERT INTO** command.

ISM_Lab_Assignment_26-YashJain_BCom5A

Limit to 5000 rows

```

13
14 • insert into clients (client_id,client_name,city,state,pincode,baldue)
15 values ('C0001','Ivan Bayross','Mumbai','Maharashtra',400054,15000);
16
17 • insert into clients (client_id,client_name,city,state,pincode,baldue)
18 values ('C0002','Mamta Muzumdar','Madras','Tamil Nadu',780001,0);
19
20 • insert into clients (client_id,client_name,city,state,pincode,baldue)
21 values ('C0003','Chhaya Bankar','Mumbai','Maharashtra',400057,5000);
22
23 • insert into clients (client_id,client_name,city,state,pincode,baldue)
24 values ('C0004','Ashwini Joshi','Bangalore','Karnatka',560001,0);
25
26 • select * from clients;
27

```

Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell

#	client_id	client_name	city	state	pincode	baldue
1	C0001	Ivan Bayross	Mumbai	Maharashtra	400054	15000
2	C0002	Mamta Muzumdar	Madras	Tamil Nadu	780001	0
3	C0003	Chhaya Bankar	Mumbai	Maharashtra	400057	5000
4	C0004	Ashwini Joshi	Bangalore	Karnatka	560001	0
*	NULL	NULL	NULL	NULL	NULL	NULL

Task 3: Create the following table with the given attributes:

Table Name: **Products**

Column Name	Data Type	Size	Default	Attributes
PRODUCT_NO	VARCHAR	6		Primary key/ first letter must start with P
DESCRIPTION	VARCHAR	15		NOT NULL
QTY_ON_HAND	INTEGER			NOT NULL
REORDER_LEVEL	INTEGER			NOT NULL
SELL PRICE	INTEGER			NOT NULL, CANNOT BE 0
COST PRICE	INTEGER			NOT NULL, CANNOT BE 0

This task can be completed using the **CREATE TABLE** command, along with the **Primary Key**, **Not Null** and **Check** constraints.

The screenshot shows a database management tool interface. The top toolbar includes icons for file operations, execution, and search. The main area displays the following SQL code:

```

27
28 • create table products (
29     product_id varchar(6) primary key check(product_id like 'P%' or product_id like 'p%'),
30     description_ varchar(15) not null,
31     qty_in_hand int not null,
32     reorder_level int not null,
33     sell_price int not null check(sell_price!=0),
34     cost_price int not null check(cost_price!=0)
35 );
36
37 • desc products;
  
```

Below the code, the 'Result Grid' shows the table structure:

#	Field	Type	Null	Key	Default	Extra
1	product_id	varchar(6)	NO	PRI	NULL	
2	description_	varchar(15)	NO		NULL	
3	qty_in_hand	int	NO		NULL	
4	reorder_level	int	NO		NULL	
5	sell_price	int	NO		NULL	
6	cost_price	int	NO		NULL	

Task 4: Insert the following values into the Clients table:

PRODUCT_NO	DESCRIPTION	QTY_ON HAND	REORDER LEVEL	SELL PRICE	COST PRICE
P0001	T-shirts	200	50	350	250
P0345	Shirts	150	50	500	350
P06734	Cotton Jeans	100	20	600	450
P07865	Jeans	100	20	750	500

This task can be completed using the **INSERT INTO** Command.

The screenshot shows a database management tool interface. At the top, there's a tab labeled 'ISM_Lab_Assignment_26-YashJain_BCom5A'. Below the tab is a toolbar with various icons and a 'Limit to 5000 rows' dropdown. The main area displays SQL commands in a text editor:

```
38
39 • insert into products(product_id,description_,qty_in_hand,reorder_level,sell_price,cost_price)
40 values ('P0001','T-Shirts',200,50,350,250);
41
42 • insert into products(product_id,description_,qty_in_hand,reorder_level,sell_price,cost_price)
43 values ('P0345','Shirts',150,50,500,350);
44
45 • insert into products(product_id,description_,qty_in_hand,reorder_level,sell_price,cost_price)
46 values ('P06734','Cotton Jeans',100,20,600,450);
47
48 • insert into products(product_id,description_,qty_in_hand,reorder_level,sell_price,cost_price)
49 values ('P07865','Jeans',100,20,750,500);
50
51 • select * from products;
52
```

Below the SQL editor is a 'Result Grid' showing the output of the last query. It has a search bar and various action buttons. The grid contains the following data:

#	product_id	description_	qty_in_hand	reorder_level	sell_price	cost_price
1	P0001	T-Shirts	200	50	350	250
2	P0345	Shirts	150	50	500	350
3	P06734	Cotton Jeans	100	20	600	450
4	P07865	Jeans	100	20	750	500
*	NULL	NULL	NULL	NULL	NULL	NULL

Task 5: Create the following table with the given attributes:

Table Name: SALESMAN

Column_Name	Data Type	Size	Default	Attributes
SALESMAN_NO	VARCHAR	6		Primary key/ first letter must start with S
SALESMAN_NAME	VARCHAR	20		NOT NULL
CITY	VARCHAR	20		
PINCODE	INTEGER			
STATE	VARCHAR	20		
SALES_AMOUNT	INTEGER			NOT NULL, CANNOT BE 0

This task can be completed using the **CREATE TABLE** command, along with the **Primary Key**, **Not Null** and **Check** constraints.

The screenshot shows a database management tool interface. The top toolbar includes icons for file operations, a search icon, and a 'Limit to 5000 rows' dropdown. The SQL editor contains the following code:

```
52
53 • create table salesman (
54     salesman_id varchar(6) primary key check(salesman_id like 'S%' or salesman_id like 's%'),
55     salesman_name varchar(20) not null,
56     city varchar(20),
57     pincode int,
58     state varchar(20),
59     sales_amount int not null check(sales_amount!=0)
60 );
61
62 • desc salesman;
```

Below the editor is the 'Result Grid' showing the table structure:

#	Field	Type	Null	Key	Default	Extra
1	salesman_id	varchar(6)	NO	PRI	NULL	
2	salesman_name	varchar(20)	NO		NULL	
3	city	varchar(20)	YES		NULL	
4	pincode	int	YES		NULL	
5	state	varchar(20)	YES		NULL	
6	sales_amount	int	NO		NULL	

Task 6: Insert the following values in the SALESMAN table:

SALESMAN_NO	SALESMAN_NAME	CITY	PINCODE	STATE	SALES_AMT
S00001	AMAN	MUMBAI	400002	Maharashtra	3000
S00002	Omkar	MUMBAI	400001	Maharashtra	3000
S00003	Raj	MUMBAI	400032	Maharashtra	3000
S00004	Ashish	MUMBAI	400044	Maharashtra	3500

This task can be completed using the **INSERT INTO** Command.

The screenshot shows the same database management tool interface. The SQL editor contains the following code:

```
63
64 • insert into salesman (salesman_id,salesman_name,city,pincode,state,sales_amount)
65 values ('S00001','Aman','Mumbai',400002,'Maharashtra',3000);
66
67 • insert into salesman (salesman_id,salesman_name,city,pincode,state,sales_amount)
68 values ('S00002','Omkar','Mumbai',400001,'Maharashtra',3000);
69
70 • insert into salesman (salesman_id,salesman_name,city,pincode,state,sales_amount)
71 values ('S00003','Raj','Mumbai',400032,'Maharashtra',3000);
72
73 • insert into salesman (salesman_id,salesman_name,city,pincode,state,sales_amount)
74 values ('S00004','Ashish','Mumbai',400044,'Maharashtra',3000);
75
```

```
76 • select * from salesman;
77
```

#	salesman_id	salesman_name	city	pincode	state	sales_amount
1	S00001	Aman	Mumbai	400002	Maharashtra	3000
2	S00002	Omkar	Mumbai	400001	Maharashtra	3000
3	S00003	Raj	Mumbai	400032	Maharashtra	3000
4	S00004	Ashish	Mumbai	400044	Maharashtra	3000
*	NULL	NULL	NULL	NULL	NULL	NULL

Task 7: Create the following table with the given attributes:

Table Name: **SALES_ORDER**

Column_Name	Data Type	Size	Default	Attributes
ORDER_NO	VARCHAR	6		Primary key/ first letter must start with O
CLIENT_NO	VARCHAR	6		REFER CLIENT_MASTER
Order_date	DATE			NOT NULL
Salesman_NO	VARCHAR	6		REFER SALESMAN_MASTER
ORDER_STATUS	VARCHAR	10		IN_PROCESS, CANCELLED, FULFILLED, BACK_ ORDER

This task can be completed using the **CREATE TABLE** command, along with the **Primary Key**, **Not Null**, **Foreign Key** and **Check** constraints.

```
ISM_Lab_Assignment_26-YashJain_BCom5A x
Limit to 5000 rows
79 order_no varchar(6) primary key check(order_no like 'O%' or order_no like 'o%'),
80 client_no varchar(6), foreign key (client_no) references clients(client_id),
81 order_date date not null,
82 salesman_no varchar(6), foreign key (salesman_no) references salesman(salesman_id),
83 order_status varchar(10) check(order_status in ('IN PROCESS', 'CANCELLED', 'FULFILLED', 'BACK ORDERED'))
84 );
85
86 • desc sales_order;
```

87

#	Field	Type	Null	Key	Default	Extra
1	order_no	varchar(6)	NO	PRI	NULL	
2	client_no	varchar(6)	YES	MUL	NULL	
3	order_date	date	NO		NULL	
4	salesman_no	varchar(6)	YES	MUL	NULL	
5	order_status	varchar(10)	YES		NULL	

Task 8: Insert the following values in the SALES_ORDER table:

ORDER_NO	CLIENT_NO	Order Date	Salesman No	Order_status
O19001	C00001	12-JUNE-2004	S00001	IN_PROCESS
O19002	C00002	25-JUNE-2004	S00002	CANCELLED
O46865	C00003	18-FEB-2004	S00003	FULFILLED
O19003	C00001	03-APR-2004	S00001	FULFILLED

This task can be completed using the **INSERT INTO** Command.

```
ISM_Lab_Assignment_26-YashJain_BCom5A x
Limit to 5000 rows
87
88 • insert into sales_order (order_no,client_no,order_date,salesman_no,order_status)
89 values ('O19001','C0001','2004-06-13','S00001','IN PROCESS');
90
91 • insert into sales_order (order_no,client_no,order_date,salesman_no,order_status)
92 values ('O19002','C0002','2004-06-25','S00002','CANCELLED');
93
94 • insert into sales_order (order_no,client_no,order_date,salesman_no,order_status)
95 values ('O46865','C0003','2004-02-18','S00003','FULFILLED');
96
97 • insert into sales_order (order_no,client_no,order_date,salesman_no,order_status)
98 values ('O19003','C0001','2004-04-03','S00001','FULFILLED');
99
100 • select * from sales_order;
101
```

#	order_no	client_no	order_date	salesman_no	order_status
1	O19001	C0001	2004-06-13	S00001	IN PROCESS
2	O19002	C0002	2004-06-25	S00002	CANCELLED
3	O19003	C0001	2004-04-03	S00001	FULFILLED
4	O46865	C0003	2004-02-18	S00003	FULFILLED
*	NULL	NULL	NULL	NULL	NULL

Task 9: Create the following table with the given attributes:Table Name: **SALES_ORDER_DETAILS**

Column Name	Data Type	Size	Default	Attributes
ORDER_NO	VARCHAR	6		REFER SALES_ORDER
PRODUCT_NO	VARCHAR	6		REFER PRODUCT_MASTER
QTY_ORDERED	INTEGER			

This task can be completed using the **CREATE TABLE** command, along with the **Primary Key, Foreign Key** constraints.

The screenshot shows a database management tool interface. The top bar indicates the file name 'ISM_Lab_Assignment_26-YashJain_BCom5A'. Below the toolbar, the SQL command is entered in a text area:

```
101
102 • create table sales_order_details (
103     order_no varchar(6), foreign key (order_no) references sales_order(order_no),
104     product_no varchar(6), foreign key (product_no) references products(product_id),
105     qty_ordered int
106 );
107
108 • desc sales_order_details;
109
```

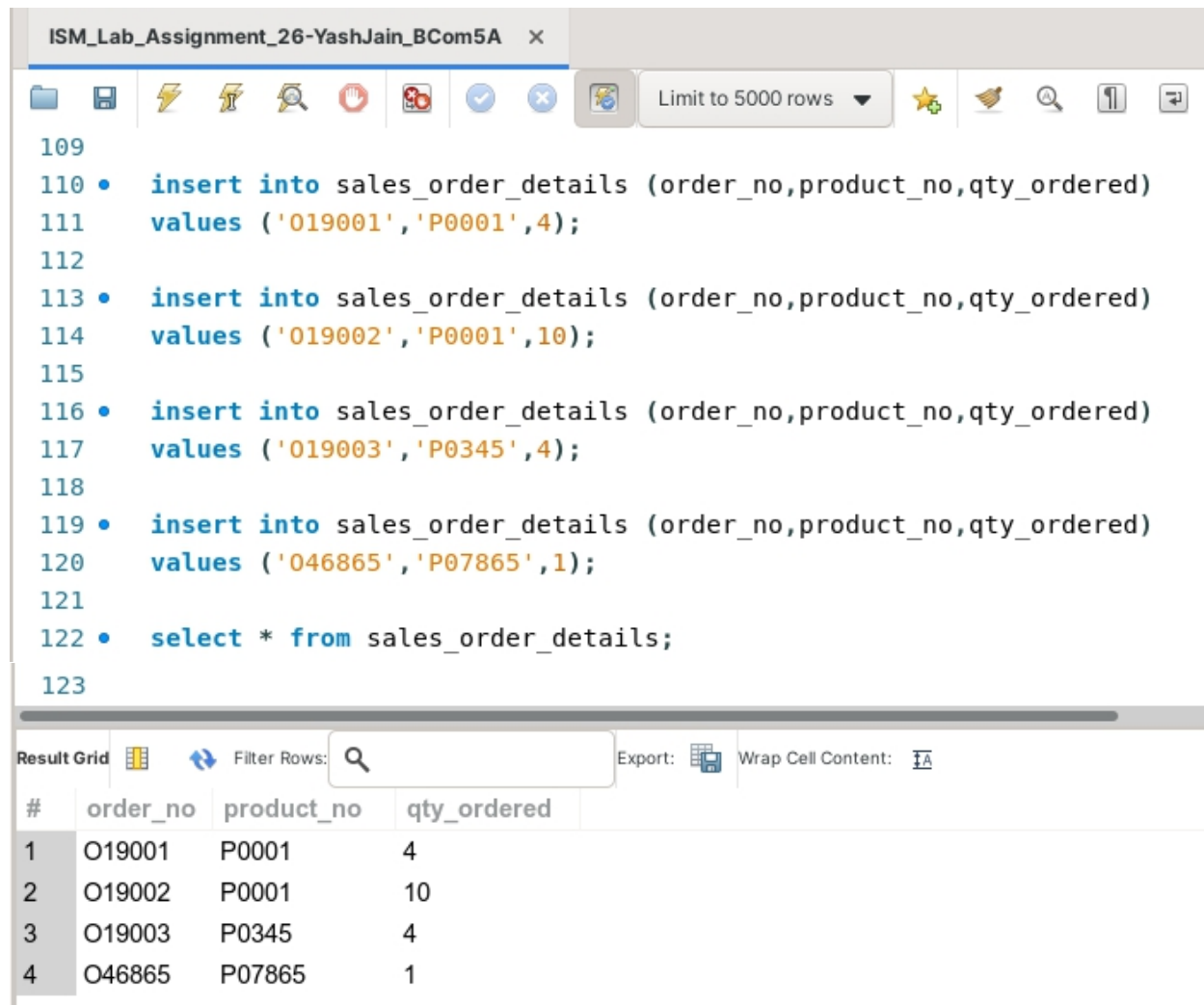
Below the SQL editor, the 'Result Grid' is displayed, showing the table structure for 'sales_order_details':

#	Field	Type	Null	Key	Default	Extra
1	order_no	varchar(6)	YES	MUL	NULL	
2	product_no	varchar(6)	YES	MUL	NULL	
3	qty_ordered	int	YES		NULL	

Task 10: Insert the following values in the SALES_ORDER_DETAILS table:

ORDER_NO	PRODUCT_NO	QTY_ORDERED
O19001	P00001	4
O19002	P00001	10
O19003	P0345	4
O46865	P07865	1

This task can be completed using the **INSERT INTO** Command.



The screenshot shows a database management tool interface. The top tab is labeled "ISM_Lab_Assignment_26-YashJain_BCom5A". The SQL editor contains the following commands:

```
109
110 • insert into sales_order_details (order_no,product_no,qty_ordered)
111     values ('019001','P0001',4);
112
113 • insert into sales_order_details (order_no,product_no,qty_ordered)
114     values ('019002','P0001',10);
115
116 • insert into sales_order_details (order_no,product_no,qty_ordered)
117     values ('019003','P0345',4);
118
119 • insert into sales_order_details (order_no,product_no,qty_ordered)
120     values ('046865','P07865',1);
121
122 • select * from sales_order_details;
123
```

Below the editor is the "Result Grid" showing the output of the last query. It includes a search bar, an "Export" button, and a "Wrap Cell Content" checkbox. The data is as follows:

#	order_no	product_no	qty_ordered
1	O19001	P0001	4
2	O19002	P0001	10
3	O19003	P0345	4
4	O46865	P07865	1