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Future Vision

By K B Hemanth Raj

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# DBMS LABORATORY WITH MINI PROJECT

[As per Choice Based Credit System (CBCS) scheme]

(Effective from the academic year 2017-2018)

## SEMESTER – V

Subject Code: **17CSL58**

IA Marks: **40**

Exam Marks: **60**

Exam Hours: **03**

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### Program - 4

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Consider the schema for College Database:

**STUDENT(USN, SName, Address, Phone, Gender)**

**SEMSEC(SSID, Sem, Sec)**

**CLASS(USN, SSID)**

**SUBJECT(Subcode, Title, Sem, Credits)**

**IAMARKS(USN, Subcode, SSID, Test1, Test2, Test3, FinalIA)**

Write SQL queries to

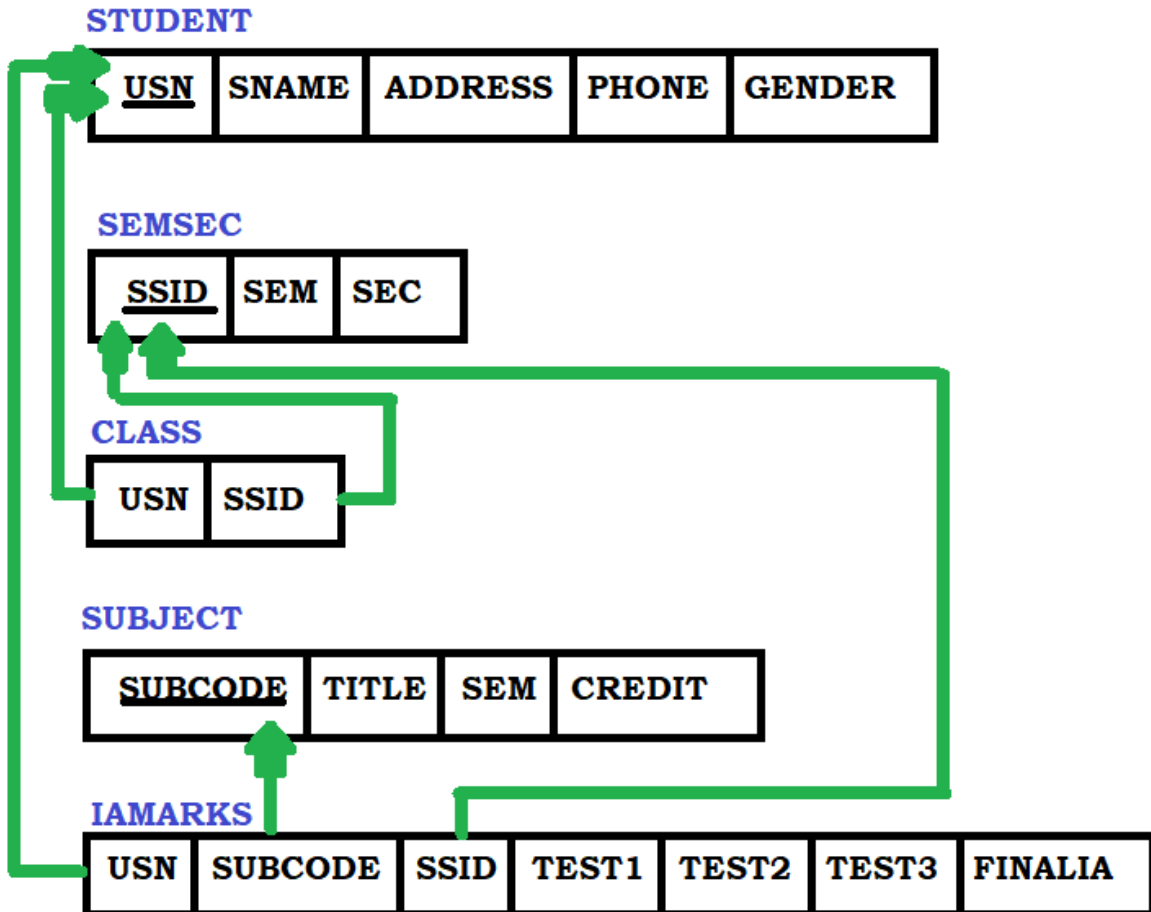
- 1. List all the student details studying in fourth semester 'C' section.**
- 2. Compute the total number of male and female students in each semester and in each section.**
- 3. Create a view of Test1 marks of student USN '1BI17CS101' in all subjects.**
- 4. Calculate the FinalIA (average of best two test marks) and update the corresponding table for all students.**
- 5. Categorize students based on the following criterion:**  
If FinalIA = 17 to 20 then CAT = 'Outstanding'  
If FinalIA = 12 to 16 then CAT = 'Average'  
If FinalIA < 12 then CAT = 'Weak'

**Give these details only for 8th semester A, B, and C section students.**

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SCHEMA DIAGRAM:

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## STEPS TO OPEN THE ORACLE DATABASE – 10G EXPRESS EDITION

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Step 1: Open the Browser (Preferred Chrome).

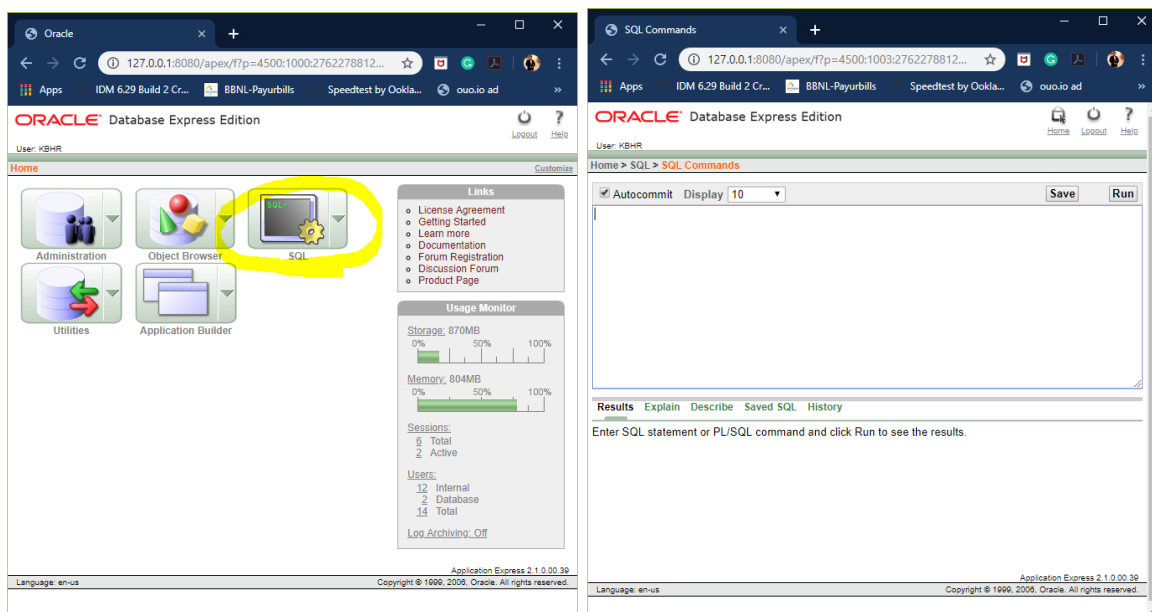
Step 2: <http://127.0.0.1:8080/apex/> Enter the link on the browser.

Step 3: login with your id and password (finding difficulty in login in go to the link to know in-depth details

[https://hemanthrajhemu.github.io/FutureVisionBIE/WP/5CSE/DBMS\\_LAB\\_INFO.html](https://hemanthrajhemu.github.io/FutureVisionBIE/WP/5CSE/DBMS_LAB_INFO.html)

(Note Username is the system by default & Password is the passkey you entered in the installation)

Step 4: Now click on SQL->SQL Commands. This is the place where we execute the SQL Commands.



Step 5: you are in SQL Command Now you can Create table, create view, Run Queries here & lot more.

Or Method -2 using Command Prompt

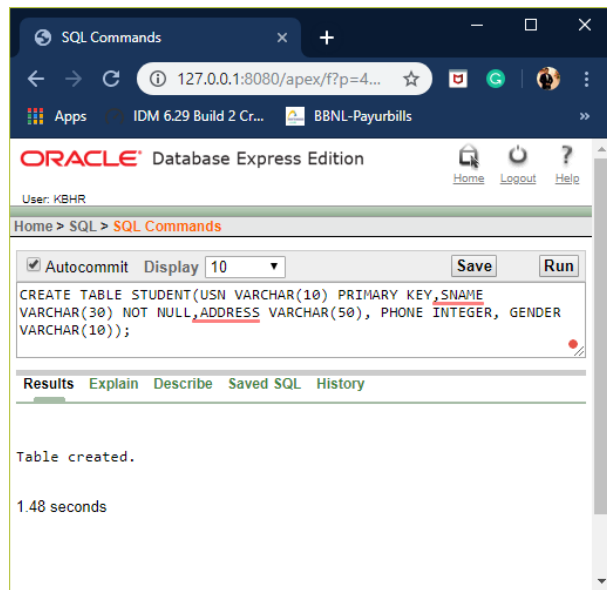
[https://hemanthrajhemu.github.io/FutureVisionBIE/WP/5CSE/DBMS\\_LAB\\_METHOD\\_2.html](https://hemanthrajhemu.github.io/FutureVisionBIE/WP/5CSE/DBMS_LAB_METHOD_2.html)

## Create Table: (Follow the Schema Diagram in Creating the Data Base)

### 1. Create Table for STUDENT

```
CREATE TABLE STUDENT(
USN VARCHAR(10) PRIMARY KEY,
SNAME VARCHAR(30) NOT NULL,
ADDRESS VARCHAR(50),
PHONE INTEGER,
GENDER VARCHAR(10));
```

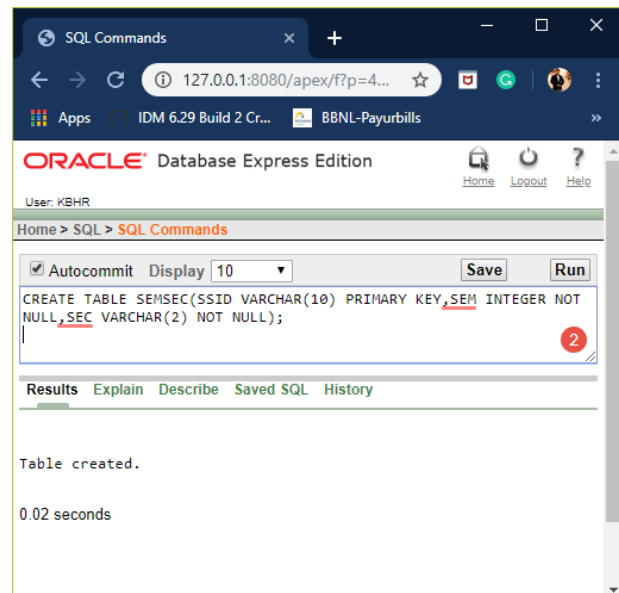
NOW RUN.



### 2. Create Table for SEMSEC

```
CREATE TABLE SEMSEC(
SSID VARCHAR(10) PRIMARY KEY,
SEM INTEGER NOT NULL,
SEC VARCHAR(2) NOT NULL);
```

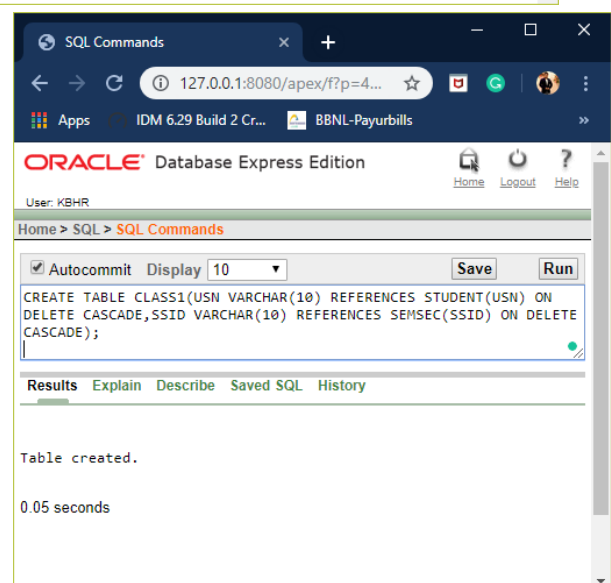
NOW RUN.



### 3. Create Table for CLASS1

```
CREATE TABLE CLASS1(
USN VARCHAR(10) REFERENCES
STUDENT(USN) ON DELETE CASCADE
,SSID VARCHAR(10) REFERENCES
SEMSEC(SSID) ON DELETE CASCADE);
```

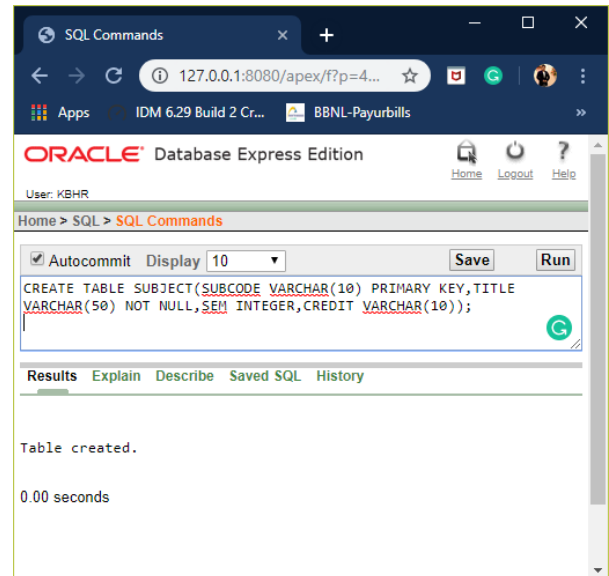
NOW RUN.



#### 4. Create Table for SUBJECT

```
CREATE TABLE SUBJECT(  
SUBCODE VARCHAR(10) PRIMARY KEY,  
TITLE VARCHAR(50) NOT NULL,  
SEM INTEGER,CREDIT VARCHAR(10));
```

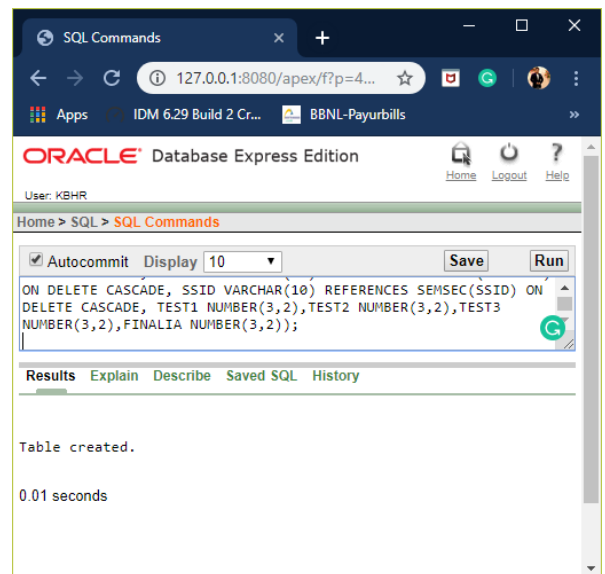
NOW RUN.



#### 5. Create Table for IAMARKS

```
CREATE TABLE IAMARKS(  
USN VARCHAR(10) REFERENCES  
STUDENT(USN) ON DELETE CASCADE,  
SUBCODE VARCHAR(10) REFERENCES  
SUBJECT(SUBCODE)  
ON DELETE CASCADE,  
SSID VARCHAR(10) REFERENCES  
SEMSEC(SSID) ON DELETE CASCADE,  
TEST1 NUMBER(3,2),  
TEST2 NUMBER(3,2),  
TEST3 NUMBER(3,2),  
FINALIA NUMBER(3,2));
```

NOW RUN.



---

## TABLE DESCRIPTION

---

### 1. DESC STUDENT;

The screenshot shows the Oracle Database Express Edition interface. The SQL Command window contains the command `DESC STUDENT;`. The results window displays the following table structure:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STUDENT	USN	Varchar2	10	-	-	1	-	-	-
	SNAME	Varchar2	30	-	-	-	-	-	-
	ADDRESS	Varchar2	50	-	-	-	✓	-	-
	PHONE	Number	-	-	0	-	✓	-	-
	GENDER	Varchar2	10	-	-	-	✓	-	-
									1 - 5

### 2. DESC SEMSEC;

The screenshot shows the Oracle Database Express Edition interface. The SQL Command window contains the command `DESC SEMSEC;`. The results window displays the following table structure:

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SEMSEC	SSID	Varchar2	10	-	-	1	-	-	-
	SEM	Number	-	-	0	-	-	-	-
	SEC	Varchar2	2	-	-	-	-	-	-
									1 - 3

### 3. DESC CLASS1;

ORACLE Database Express Edition

User: KBHR

Home > SQL > SQL Commands

Autocommit  Display 10 Save Run

DESC CLASS1;

Results Explain Describe Saved SQL History

Object Type TABLE Object CLASS1

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CLASS1	USN	Varchar2	10	-	-	-	✓	-	-
	SSID	Varchar2	10	-	-	-	✓	-	-
									1 - 2

### 4. DESC SUBJECT;

ORACLE Database Express Edition

User: KBHR

Home > SQL > SQL Commands

Autocommit  Display 10 Save Run

DESC SUBJECT;

Results Explain Describe Saved SQL History

Object Type TABLE Object SUBJECT

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SUBJECT	SUBCODE	Varchar2	10	-	-	1	-	-	-
	TITLE	Varchar2	50	-	-	-	-	-	-
	SEM	Number	-	-	0	-	✓	-	-
	CREDIT	Varchar2	10	-	-	-	✓	-	-
									1 - 4



## 5. DESC IAMARKS;

The screenshot shows the Oracle Database Express Edition interface. The user is logged in as 'KBHR'. The SQL command 'DESC IAMARKS;' has been entered and executed. The results show the structure of the 'IAMARKS' table.

Object Type **TABLE** Object **IAMARKS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
<a href="#">IAMARKS</a>	<a href="#">USN</a>	Varchar2	10	-	-	-	✓	-	-
	<a href="#">SUBCODE</a>	Varchar2	10	-	-	-	✓	-	-
	<a href="#">SSID</a>	Varchar2	10	-	-	-	✓	-	-
	<a href="#">TEST1</a>	Number	-	3	2	-	✓	-	-
	<a href="#">TEST2</a>	Number	-	3	2	-	✓	-	-
	<a href="#">TEST3</a>	Number	-	3	2	-	✓	-	-
	<a href="#">FINALIA</a>	Number	-	3	2	-	✓	-	-
									1 - 7

Application Express 2.1.0.00.39  
Language: en-us Copyright © 1999, 2006, Oracle. All rights reserved.

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## INSERTION OF VALUES TO TABLE

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### 1. VALUES INTO STUDENT:

```
INSERT INTO STUDENT(<USN>,<SNAME>,<ADDRESS>,<PHONE>,<GENDER>);
```

```
INSERT INTO STUDENT VALUES
```

```
('1BY16CS701','PUNITH','BANGLORE',8889659696,'MALE');
```

```
INSERT INTO STUDENT('1BY16CS702','ABDUL','BANGLORE',8866352000,'MALE');
```

```
INSERT INTO STUDENT('1BY16CS703','NOOR','BANGLORE',8111200320,'FEMALE');
```

```
INSERT INTO STUDENT('1BY16CS704','HEMANTH','BANGLORE',9869655510,'MALE');
```

```
INSERT INTO STUDENT('1BY16CS704','RAHUL','BANGLORE',9965238410,'MALE');
```

```
INSERT INTO STUDENT VALUES
```

```
('1BY17CS501','JYOTHI','BANGLORE',8875452200,'FEMALE');
```

```
INSERT INTO STUDENT VALUES
```

```
('1BY17CS502','SPOORTHI','BANGLORE',9956541203,'FEMALE');
```

```
INSERT INTO STUDENT VALUES
```

```
('1BY17CS503','SNEHA','BANGLORE',9966552200,'FEMALE');
```

```
INSERT INTO STUDENT VALUES
```

```
('1BY17CS504','RAJKUMAR','BANGLORE',7799553265,'MALE');
```

```
INSERT INTO STUDENT VALUES
```

```
('1BY17CS505','HIMANSHU','BANGLORE',7755221025,'FEMALE');
```

```
INSERT INTO STUDENT VALUES
```

```
('1BY18CS301','RAKSHITHA','BANGLORE',9685774120,'FEMALE');
```

```
INSERT INTO STUDENT VALUES
```

```
('1BY18CS302','VARSHA','BANGLORE',9933526874,'FEMALE');
```

```
INSERT INTO STUDENT VALUES
```

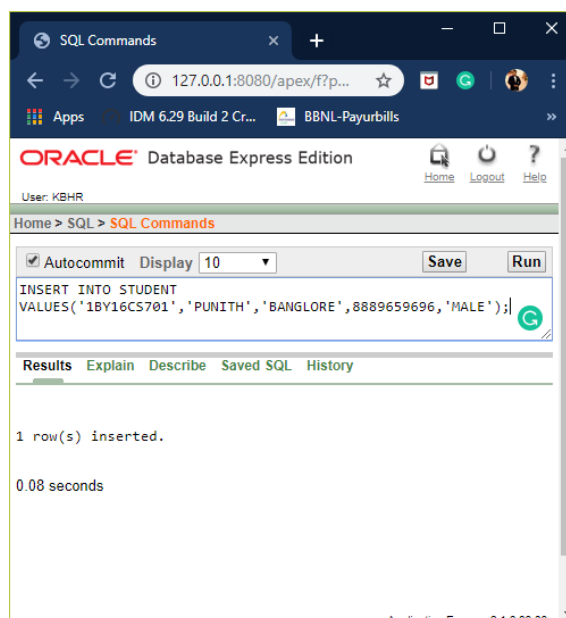
```
('1BY18CS303','RAHUL','BANGLORE',9955522210,'MALE');
```

```
INSERT INTO STUDENT VALUES
```

```
('1BY18CS304','RAAFAY','BANGLORE',9966551100,'MALE');
```

```
INSERT INTO STUDENT VALUES
```

```
('1BY18CS305','PRANAV','BANGLORE',9975756630,'MALE');
```



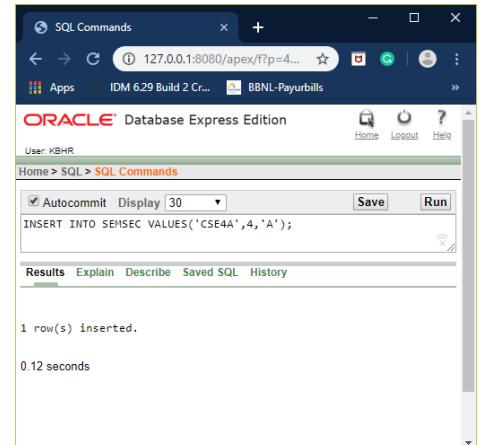
## 2. VALUES INTO SEMSEC:

**INSERT INTO SEMSEC VALUES(<SSID>,<SEM>,<SEC>);**

```

INSERT INTO SEMSEC VALUES('CSE4A',4,'A');
INSERT INTO SEMSEC VALUES('CSE4B',4,'B');
INSERT INTO SEMSEC VALUES('CSE4C',4,'C');
INSERT INTO SEMSEC VALUES('CSE6A',6,'A');
INSERT INTO SEMSEC VALUES('CSE6B',6,'B');
INSERT INTO SEMSEC VALUES('CSE6C',6,'C');
INSERT INTO SEMSEC VALUES('CSE8A',8,'A');
INSERT INTO SEMSEC VALUES('CSE8B',8,'B');
INSERT INTO SEMSEC VALUES('CSE8C',8,'C');

```



## 3. VALUES INTO CLASS1:

**INSERT INTO CLASS1 VALUES(<USN>,<SSID>);**

```

INSERT INTO CLASS1 VALUES('1BY18CS301','CSE4A');
INSERT INTO CLASS1 VALUES('1BY18CS302','CSE4A');
INSERT INTO CLASS1 VALUES('1BY18CS303','CSE4B');
INSERT INTO CLASS1 VALUES('1BY18CS304','CSE4B');
INSERT INTO CLASS1 VALUES('1BY18CS305','CSE4C');

```

```

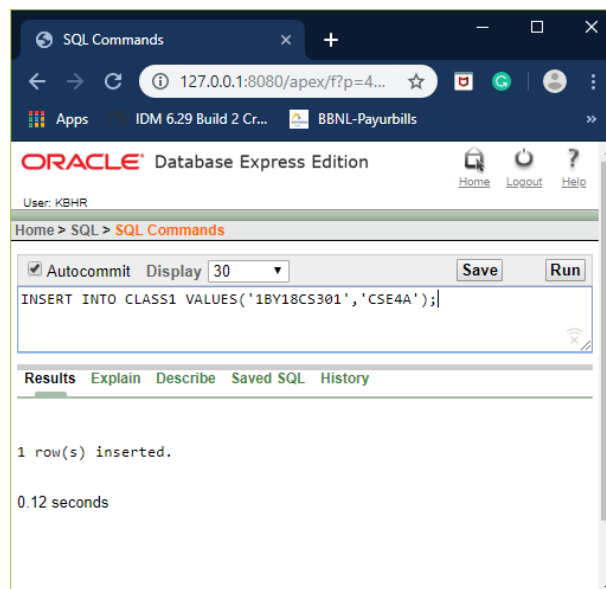
INSERT INTO CLASS1 VALUES('1BY17CS501','CSE6A');
INSERT INTO CLASS1 VALUES('1BY17CS502','CSE6A');
INSERT INTO CLASS1 VALUES('1BY17CS503','CSE6B');
INSERT INTO CLASS1 VALUES('1BY17CS504','CSE6C');
INSERT INTO CLASS1 VALUES('1BY17CS505','CSE6C');
INSERT INTO CLASS1 VALUES('1BY16CS701','CSE8A');

```

```

INSERT INTO CLASS1 VALUES('1BY16CS702','CSE8A');
INSERT INTO CLASS1 VALUES('1BY16CS703','CSE8B');
INSERT INTO CLASS1 VALUES('1BY16CS704','CSE8B');
INSERT INTO CLASS1 VALUES('1BY16CS705','CSE8C');

```



#### 4. VALUES INTO SUBJECT:

```
INSERT INTO SUBJECT(<SUBCODE>,<TITLE>,<SEM>,<CREDIT>);
```

```
INSERT INTO SUBJECT VALUES ('18CS01','MATHS-4','4','4');
```

```
INSERT INTO SUBJECT VALUES ('18CS02','DMS','4','3');
```

```
INSERT INTO SUBJECT VALUES ('18CS03','OOC','4','3');
```

```
INSERT INTO SUBJECT VALUES ('18CS04','DAA','4','3');
```

```
INSERT INTO SUBJECT VALUES ('17CS01','COMPUTER GRAPHICS AND  
VISUALIZATION','6','4');
```

```
INSERT INTO SUBJECT VALUES ('17CS02','SYSTEM SOFTWARE AND  
COMPILER DESIGN','6','4');
```

```
INSERT INTO SUBJECT VALUES ('17CS03','OPERATING SYSTEMS','6','4');
```

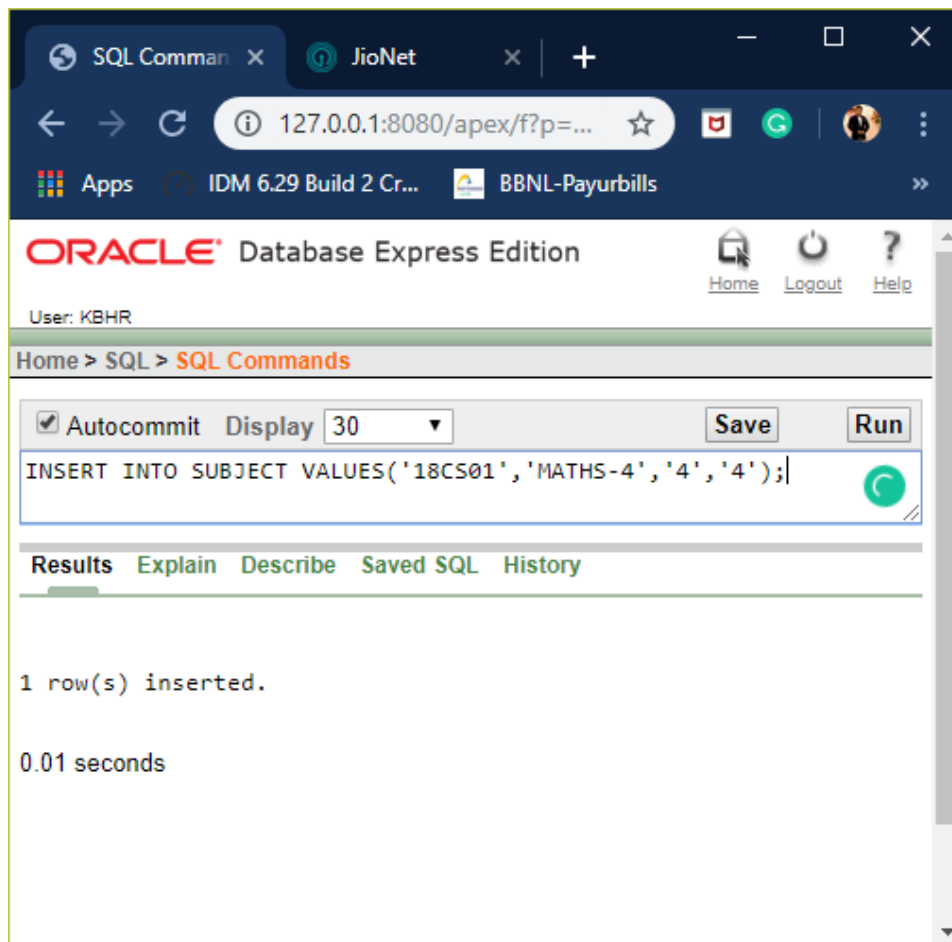
```
INSERT INTO SUBJECT VALUES ('17CS04','DATA MINING AND DATA  
WAREHOUSING','6','3');
```

```
INSERT INTO SUBJECT VALUES ('16CS03','INTERNET OF THINGS  
TECHNOLOGY','8','4');
```

```
INSERT INTO SUBJECT VALUES ('16CS03','BIG DATA ANALYTICS','8','4');
```

```
INSERT INTO SUBJECT VALUES ('16CS03','HIGH PERFORMANCE  
COMPUTING','8','3');
```

```
INSERT INTO SUBJECT VALUES ('16CS03','USER INTERFACE DESIGN','8','3');
```



## 5. VALUES INTO IAMARKS:

```
INSERT INTO IAMARKS VALUES(<USN>, <SUBCODE>, <SSID>, <TEST1>, <TEST2>, <TEST3>, <FINALIA>);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS301','18CS01','CSE4A',22,15,20,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS302','18CS01','CSE4A',20,12,28,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS303','18CS01','CSE4B',30,25,30,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS304','18CS01','CSE4B',10,12,19,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS305','18CS01','CSE4C',08,15,30,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS301','18CS02','CSE4A',5,15,30,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS302','18CS02','CSE4A',20,12,28,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS303','18CS02','CSE4B',15,05,25,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS304','18CS02','CSE4B',25,20,19,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS305','18CS02','CSE4C',8,25,30,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS301','18CS03','CSE4A',30,10,30,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS302','18CS03','CSE4A',27,15,10,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS303','18CS03','CSE4B',15,20,25,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS304','18CS03','CSE4B',15,20,10,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS305','18CS03','CSE4C',17,18,19,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS301','18CS04','CSE4A',30,5,30,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS302','18CS04','CSE4A',8,16,11,NULL);
```

```
INSERT INTO IAMARKS VALUES('1BY18CS303','18CS04','CSE4B',4,7,25,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS304','18CS04','CSE4B',29,30,29,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY18CS305','18CS04','CSE4C',30,29,30,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY17CS501','17CS01','CSE6A',25,10,15,NULL);
```

```
INSERT INTO IAMARKS
```

```
VALUES('1BY17CS502','17CS01','CSE6A',30,29,30,NULL);
```

```
INSERT INTO IAMARKS
VALUES('1BY17CS503','17CS01','CSE6B',8,25,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS504','17CS01','CSE6C',25,10,15,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS505','17CS01','CSE6C',25,10,15,NULL);

INSERT INTO IAMARKS
VALUES('1BY17CS501','17CS02','CSE6A',25,10,15,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS502','17CS02','CSE6A',8,25,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS503','17CS02','CSE6B',17,18,19,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS504','17CS02','CSE6C',30,29,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS505','17CS02','CSE6C',8,25,30,NULL);

INSERT INTO IAMARKS
VALUES('1BY17CS501','17CS03','CSE6A',25,10,15,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS502','17CS03','CSE6A',17,18,19,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS503','17CS03','CSE6B',30,29,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS504','17CS03','CSE6C',8,25,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS505','17CS03','CSE6C',14,10,15,NULL);

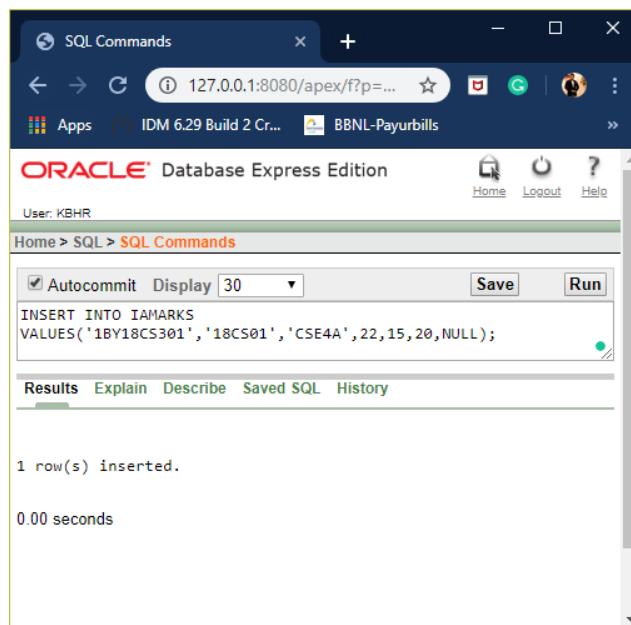
INSERT INTO IAMARKS
VALUES('1BY17CS501','17CS04','CSE6A',8,25,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS502','17CS04','CSE6A',25,10,15,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS503','17CS04','CSE6B',8,25,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS504','17CS04','CSE6C',17,18,19,NULL);
INSERT INTO IAMARKS
VALUES('1BY17CS505','17CS04','CSE6C',08,11,15,NULL);

INSERT INTO IAMARKS
VALUES('1BY16CS701','16CS01','CSE8A',25,10,15,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS702','16CS01','CSE8A',8,25,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS703','16CS01','CSE8B',17,18,19,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS704','16CS01','CSE8B',25,10,15,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS705','16CS01','CSE8C',8,25,30,NULL);
```

```
INSERT INTO IAMARKS
VALUES('1BY16CS701','16CS02','CSE8A',25,10,15,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS702','16CS02','CSE8A',8,25,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS703','16CS02','CSE8B',17,18,19,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS704','16CS02','CSE8B',25,10,15,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS705','16CS02','CSE8C',5,15,30,NULL);

INSERT INTO IAMARKS
VALUES('1BY16CS701','16CS03','CSE8A',25,10,15,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS702','16CS03','CSE8A',8,25,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS703','16CS03','CSE8B',15,15,30,NULL);
INSERT INTO IAMARKS VALUES('1BY16CS704','16CS03','CSE8B',4,7,25,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS705','16CS03','CSE8C',8,25,30,NULL);

INSERT INTO IAMARKS
VALUES('1BY16CS701','16CS04','CSE8A',5,15,30,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS702','16CS04','CSE8A',8,25,30,NULL);
INSERT INTO IAMARKS VALUES('1BY16CS703','16CS04','CSE8B',4,7,25,NULL);
INSERT INTO IAMARKS
VALUES('1BY16CS704','16CS04','CSE8B',25,10,15,NULL);
INSERT INTO IAMARKS VALUES('1BY16CS705','16CS04','CSE8C',4,7,25,NULL);
```






---

## RETRIEVAL OF INSERTED VALUES

---

### 1. STUDENT

**SELECT \* FROM STUDENTS;**

**ORACLE** Database Express Edition 
 Home
  Logout
  Help

User: KBHR

Home > SQL > **SQL Commands**

Autocommit Display 30

```
SELECT * FROM STUDENT;
```

**Results** Explain Describe Saved SQL History

USN	SNAME	ADDRESS	PHONE	GENDER
1BY16CS702	ABDUL	BANGLORE	8866352000	MALE
1BY16CS703	NOOR	BANGLORE	8111200320	FEMALE
1BY16CS704	HEMANTH	BANGLORE	9869655510	MALE
1BY17CS501	JYOTHI	BANGLORE	8875452200	FEMALE
1BY17CS502	SPOORTHI	BANGLORE	9956541203	FEMALE
1BY17CS503	SNEHA	BANGLORE	9966552200	FEMALE
1BY17CS504	RAJKUMAR	BANGLORE	7799553265	MALE
1BY17CS505	HIMANSHU	BANGLORE	7755221025	FEMALE
1BY18CS301	RAKSHITHA	BANGLORE	9685774120	FEMALE
1BY18CS302	VARSHA	BANGLORE	9933526874	FEMALE
1BY18CS303	RAHUL	BANGLORE	9955522210	MALE
1BY18CS304	RAAFAY	BANGLORE	9966551100	MALE
1BY18CS305	PRANAV	BANGLORE	9975756630	MALE
1BY16CS705	RAHUL	BANGLORE	9965238410	MALE
1BY16CS701	PUNITH	BANGLORE	8889659696	MALE

15 rows returned in 0.00 seconds [CSV Export](#)

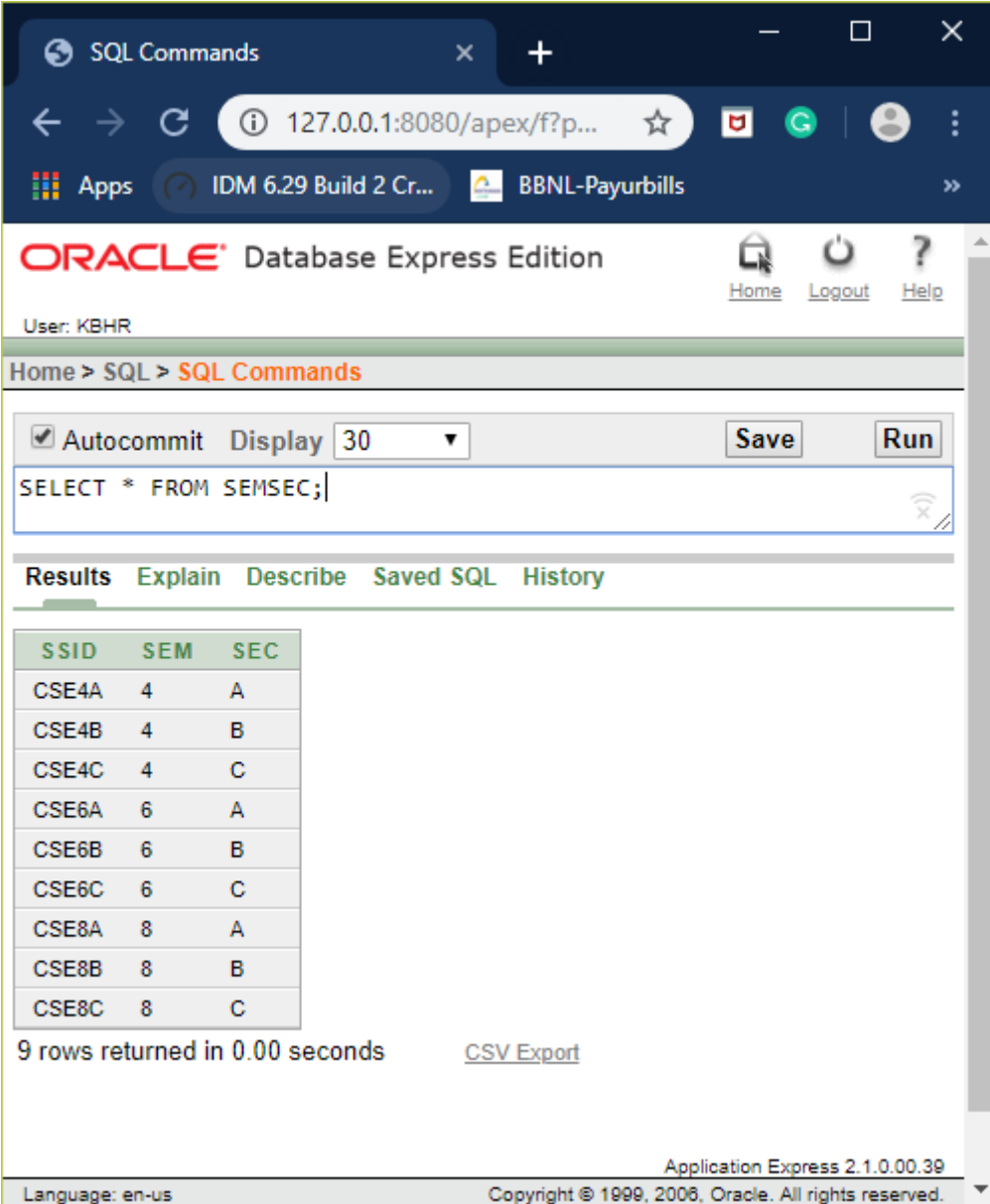
Application Express 2.1.0.00.39

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## 2. SEMSEC

SELECT \* FROM SEMSEC;



The screenshot shows the Oracle Database Express Edition interface. The browser address bar displays `127.0.0.1:8080/apex/f?p...`. The page title is "ORACLE Database Express Edition". The user is logged in as "KBHR". The breadcrumb navigation is "Home > SQL > SQL Commands". The "Autocommit" checkbox is checked, and the "Display" dropdown is set to "30". The "Save" and "Run" buttons are visible. The SQL command entered is `SELECT * FROM SEMSEC;`. The results are displayed in a table with columns "SSID", "SEM", and "SEC".

SSID	SEM	SEC
CSE4A	4	A
CSE4B	4	B
CSE4C	4	C
CSE6A	6	A
CSE6B	6	B
CSE6C	6	C
CSE8A	8	A
CSE8B	8	B
CSE8C	8	C

9 rows returned in 0.00 seconds [CSV Export](#)

Application Express 2.1.0.00.39  
Language: en-us Copyright © 1999, 2006, Oracle. All rights reserved.

### 3. CLASS1

```
SELECT * FROM CLASS1;
```

The screenshot shows the Oracle Database Express Edition interface. At the top, it says "ORACLE Database Express Edition" with navigation links for Home, Logout, and Help. The user is identified as "User: KBHR". The breadcrumb path is "Home > SQL > SQL Commands". Below this, there are controls for "Autocommit" (checked), "Display" (30), "Save", and "Run" buttons. The SQL command entered is "SELECT \* FROM CLASS1;". Below the command, there are tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". The "Results" tab is active, showing a table with two columns: "USN" and "SSID". The table contains 15 rows of data. Below the table, it states "15 rows returned in 0.63 seconds" and provides a "CSV Export" link. At the bottom, the footer includes "Application Express 2.1.0.00.39", "Language: en-us", and "Copyright © 1999, 2006, Oracle. All rights reserved."

USN	SSID
1BY18CS301	CSE4A
1BY18CS302	CSE4A
1BY18CS303	CSE4B
1BY18CS304	CSE4B
1BY18CS305	CSE4C
1BY17CS501	CSE6A
1BY17CS502	CSE6A
1BY17CS503	CSE6B
1BY17CS504	CSE6C
1BY17CS505	CSE6C
1BY16CS701	CSE8A
1BY16CS702	CSE8A
1BY16CS703	CSE8B
1BY16CS704	CSE8B
1BY16CS705	CSE8C

#### 4. SUBJECT

SELECT \* FROM SUBJECT;

**ORACLE** Database Express Edition [Home](#) [Logout](#) [Help](#)

User: KBHR

Home > SQL > **SQL Commands**

Autocommit Display 30 [Save](#) [Run](#)

SELECT \* FROM SUBJECT;

**Results** Explain Describe Saved SQL History

SUBCODE	TITLE	SEM	CREDIT
18CS01	MATHS-4	4	4
18CS02	DMS	4	3
18CS03	OOC	4	3
18CS04	DAA	4	3
17CS01	COMPUTER GRAPHICS AND VISUALIZATION	6	4
17CS02	SYSTEM SOFTWARE AND COMPILER DESIGN	6	4
17CS03	OPERATING SYSTEMS	6	4
17CS04	DATA MINING AND DATA WAREHOUSING	6	3
16CS01	INTERNET OF THINGS TECHNOLOGY	8	4
16CS02	BIG DATA ANALYTICS	8	4
16CS03	HIGH PERFORMANCE COMPUTING	8	3
16CS04	USER INTERFACE DESIGN	8	3

12 rows returned in 0.02 seconds [CSV Export](#)

Application Express 2.1.0.00.39

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#### 5. IAMARKS

SELECT \* FROM IAMARKS;

User: KBHR

Home > SQL > SQL Commands

Autocommit Display 100 Save Run

```
SELECT * FROM IAMARKS;
```

Results Explain Describe Saved SQL History

USN	SUBCODE	SSID	TEST1	TEST2	TEST3	FINALIA
1BY18CS301	18CS01	CSE4A	22	15	20	-
1BY18CS302	18CS01	CSE4A	20	12	28	-
1BY18CS303	18CS01	CSE4B	30	25	30	-
1BY18CS304	18CS01	CSE4B	10	12	19	-
1BY18CS305	18CS01	CSE4C	8	15	30	-
1BY18CS301	18CS02	CSE4A	5	15	30	-
1BY18CS302	18CS02	CSE4A	20	12	28	-
1BY18CS303	18CS02	CSE4B	15	5	25	-
1BY18CS304	18CS02	CSE4B	25	20	19	-
1BY18CS305	18CS02	CSE4C	8	25	30	-
1BY18CS301	18CS03	CSE4A	30	10	30	-
1BY18CS302	18CS03	CSE4A	27	15	10	-
1BY18CS303	18CS03	CSE4B	15	20	25	-
1BY18CS304	18CS03	CSE4B	15	20	10	-
1BY18CS305	18CS03	CSE4C	17	18	19	-
1BY18CS301	18CS04	CSE4A	30	5	30	-
1BY18CS302	18CS04	CSE4A	8	16	11	-
1BY18CS303	18CS04	CSE4B	4	7	25	-
1BY18CS304	18CS04	CSE4B	29	30	29	-
1BY18CS305	18CS04	CSE4C	30	29	30	-
1BY17CS501	17CS01	CSE6A	25	10	15	-
1BY17CS502	17CS01	CSE6A	30	29	30	-
1BY17CS503	17CS01	CSE6B	8	25	30	-
1BY17CS504	17CS01	CSE6C	25	10	15	-
1BY17CS505	17CS01	CSE6C	25	10	15	-
1BY17CS501	17CS02	CSE6A	25	10	15	-
1BY17CS502	17CS02	CSE6A	8	25	30	-
1BY17CS503	17CS02	CSE6B	17	18	19	-
1BY17CS504	17CS02	CSE6C	30	29	30	-
1BY17CS505	17CS02	CSE6C	8	25	30	-
1BY17CS501	17CS03	CSE6A	25	10	15	-
1BY17CS502	17CS03	CSE6A	17	18	19	-
1BY17CS503	17CS03	CSE6B	30	29	30	-
1BY17CS504	17CS03	CSE6C	8	25	30	-
1BY17CS505	17CS03	CSE6C	14	10	15	-
1BY17CS501	17CS04	CSE6A	8	25	30	-
1BY17CS502	17CS04	CSE6A	25	10	15	-
1BY17CS503	17CS04	CSE6B	8	25	30	-
1BY17CS504	17CS04	CSE6C	17	18	19	-
1BY17CS505	17CS04	CSE6C	8	11	15	-
1BY16CS701	16CS01	CSE8A	25	10	15	-
1BY16CS702	16CS01	CSE8A	8	25	30	-
1BY16CS703	16CS01	CSE8B	17	18	19	-
1BY16CS704	16CS01	CSE8B	25	10	15	-
1BY16CS705	16CS01	CSE8C	8	25	30	-
1BY16CS701	16CS02	CSE8A	25	10	15	-
1BY16CS702	16CS02	CSE8A	8	25	30	-
1BY16CS703	16CS02	CSE8B	17	18	19	-
1BY16CS704	16CS02	CSE8B	25	10	15	-
1BY16CS705	16CS02	CSE8C	5	15	30	-
1BY16CS701	16CS03	CSE8A	25	10	15	-
1BY16CS702	16CS03	CSE8A	8	25	30	-
1BY16CS703	16CS03	CSE8B	15	15	30	-
1BY16CS704	16CS03	CSE8B	4	7	25	-
1BY16CS705	16CS03	CSE8C	8	25	30	-
1BY16CS701	16CS04	CSE8A	5	15	30	-
1BY16CS702	16CS04	CSE8A	8	25	30	-
1BY16CS703	16CS04	CSE8B	4	7	25	-
1BY16CS704	16CS04	CSE8B	25	10	15	-
1BY16CS705	16CS04	CSE8C	4	7	25	-

60 rows returned in 0.01 seconds [CSV Export](#)

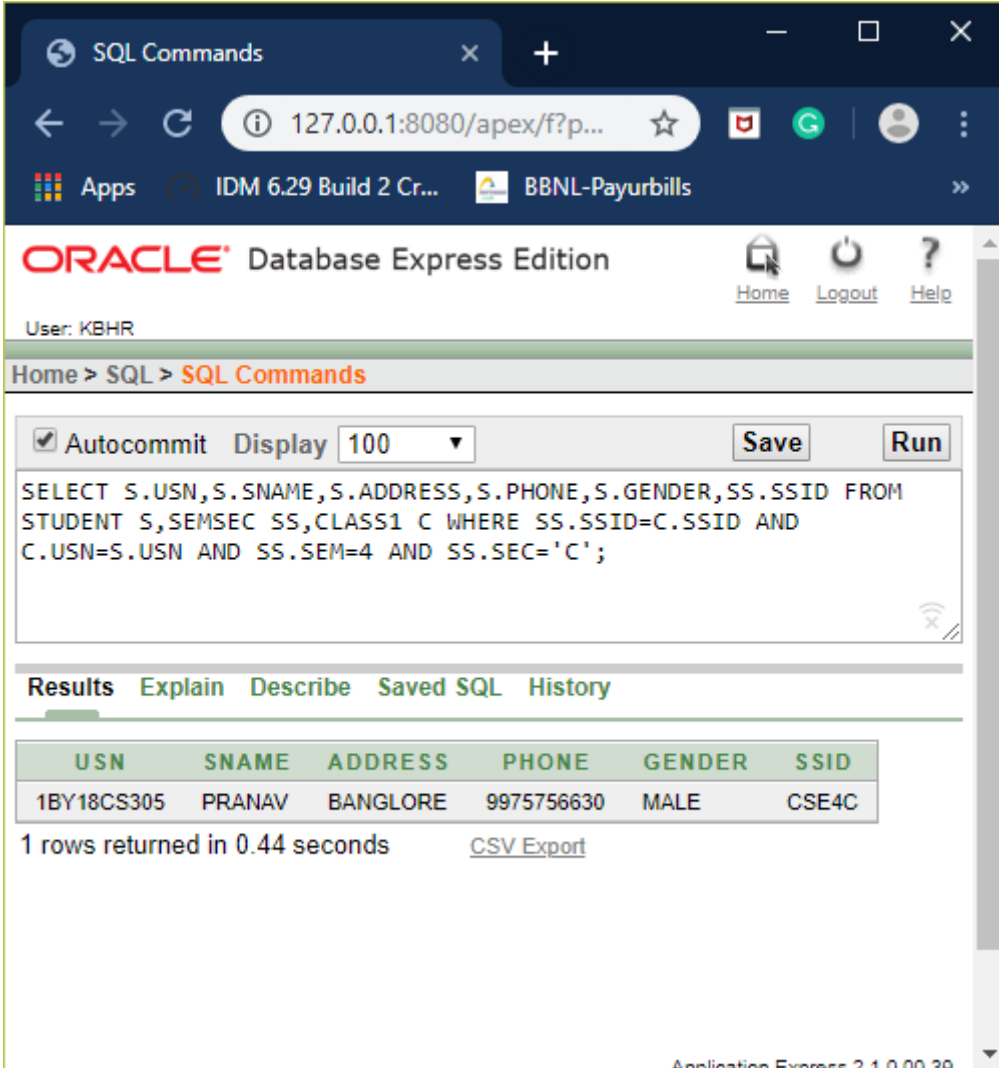
---

## QUERIES

---

### 1. List all the student details studying in fourth semester 'C' section.

```
SELECT S.USN,S.SNAME,S.ADDRESS,S.PHONE,S.GENDER,SS.SSID  
FROM STUDENT S,SEMSEC SS,CLASS1 C  
WHERE SS.SSID=C.SSID AND C.USN=S.USN AND SS.SEM=4 AND SS.SEC='C';
```



The screenshot shows the Oracle Database Express Edition interface. The browser address bar displays `127.0.0.1:8080/apex/f?p...`. The user is logged in as `KBHR`. The breadcrumb navigation is `Home > SQL > SQL Commands`. The SQL command entered is:

```
SELECT S.USN,S.SNAME,S.ADDRESS,S.PHONE,S.GENDER,SS.SSID FROM  
STUDENT S,SEMSEC SS,CLASS1 C WHERE SS.SSID=C.SSID AND  
C.USN=S.USN AND SS.SEM=4 AND SS.SEC='C';
```

The results are displayed in a table with the following columns: `USN`, `SNAME`, `ADDRESS`, `PHONE`, `GENDER`, and `SSID`. One row is returned:

USN	SNAME	ADDRESS	PHONE	GENDER	SSID
1BY18CS305	PRANAV	BANGLORE	9975756630	MALE	CSE4C

1 rows returned in 0.44 seconds. A [CSV Export](#) link is available. The application version is `Application Express 2.1.0.00.39`.

## 2. Compute the total number of male and female students in each semester and in each section.

```
SELECT SS.SEM,SS.SEC,S.GENDER,COUNT(S.GENDER) AS COUNT
FROM STUDENT S,SEMSEC SS,CLASS1 C
WHERE S.USN=C.USN AND SS.SSID=C.SSID
GROUP BY SS.SEM,SS.SEC,S.GENDER ORDER BY SEM;
```

ORACLE Database Express Edition

User: KBHR

Home > SQL > SQL Commands

Autocommit Display 100 Save Run

```
SELECT SS.SEM,SS.SEC,S.GENDER,COUNT(S.GENDER) AS COUNT FROM
STUDENT S,SEMSEC SS,CLASS1 C WHERE S.USN=C.USN AND
SS.SSID=C.SSID GROUP BY SS.SEM,SS.SEC,S.GENDER ORDER BY SEM;
```

Results Explain Describe Saved SQL History

SEM	SEC	GENDER	COUNT
4	A	FEMALE	2
4	B	MALE	2
4	C	MALE	1
6	A	FEMALE	2
6	B	FEMALE	1
6	C	FEMALE	1
6	C	MALE	1
8	A	MALE	2
8	B	FEMALE	1
8	B	MALE	1
8	C	MALE	1

11 rows returned in 0.06 seconds [CSV Export](#)

Application Express 2.1.0.00.39  
Language: en-us Copyright © 1999, 2006, Oracle. All rights reserved.

### 3. Create a view of Test1 marks of student USN '1BY17CS501' in all subjects.

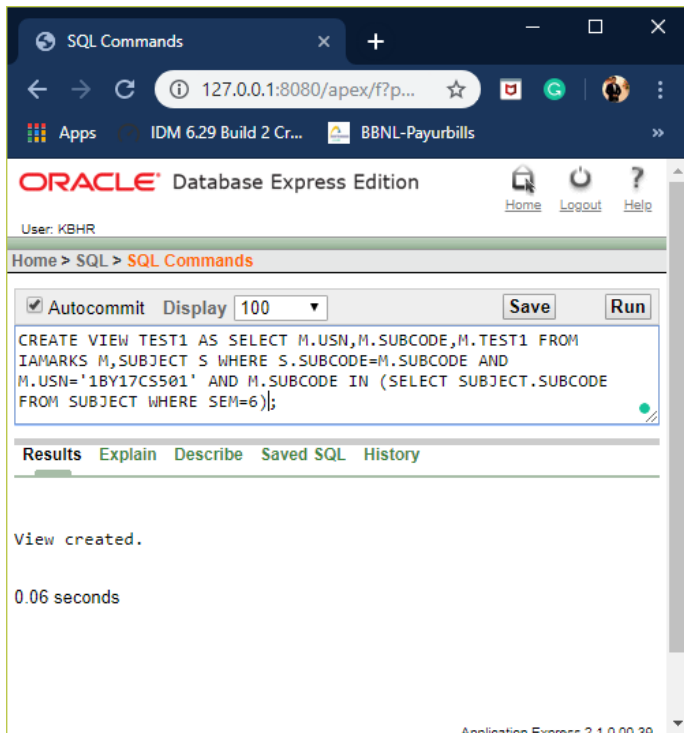
CREATE VIEW TEST1 AS

SELECT M.USN,M.SUBCODE,M.TEST1

FROM IAMARKS M,SUBJECT S

WHERE S.SUBCODE=M.SUBCODE AND M.USN='1BY17CS501' AND  
M.SUBCODE IN

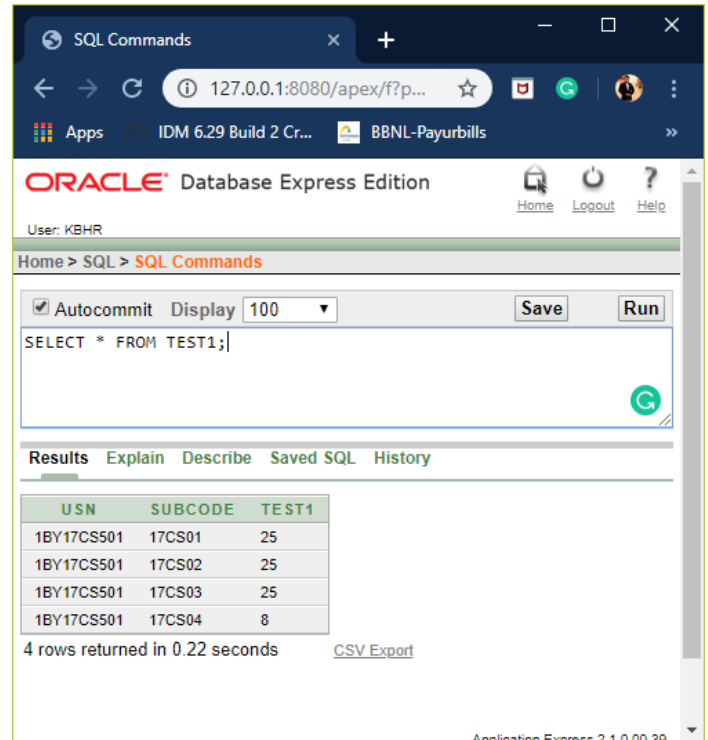
(SELECT SUBJECT.SUBCODE FROM SUBJECT WHERE SEM=6);



The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the following text:

```
CREATE VIEW TEST1 AS SELECT M.USN,M.SUBCODE,M.TEST1 FROM  
IAMARKS M,SUBJECT S WHERE S.SUBCODE=M.SUBCODE AND  
M.USN='1BY17CS501' AND M.SUBCODE IN (SELECT SUBJECT.SUBCODE  
FROM SUBJECT WHERE SEM=6);
```

Below the SQL text, the status "View created." is displayed, along with the execution time "0.06 seconds".



The screenshot shows the Oracle Database Express Edition interface. The SQL Commands window contains the following text:

```
SELECT * FROM TEST1;
```

Below the SQL text, the results are displayed in a table:

USN	SUBCODE	TEST1
1BY17CS501	17CS01	25
1BY17CS501	17CS02	25
1BY17CS501	17CS03	25
1BY17CS501	17CS04	8

Below the table, the status "4 rows returned in 0.22 seconds" is displayed, along with a "CSV Export" link.

SELECT \* FROM TEST1;

#### 4. Calculate the FinalIA (average of THREE test marks) and update the corresponding table for all students.

SELECT \* FROM IAMARKS;

ORACLE Database Express Edition Home Logout Help

User: KBHR

Home > SQL > SQL Commands

Autocommit Display 100 Save Run

SELECT \* FROM IAMARKS;

**Results** Explain Describe Saved SQL History

USN	SUBCODE	SSID	TEST1	TEST2	TEST3	FINALIA
1BY18CS301	18CS01	CSE4A	22	15	20	-
1BY18CS302	18CS01	CSE4A	20	12	28	-
1BY18CS303	18CS01	CSE4B	30	25	30	-
1BY18CS304	18CS01	CSE4B	10	12	19	-
1BY18CS305	18CS01	CSE4C	8	15	30	-
1BY18CS301	18CS02	CSE4A	5	15	30	-
1BY18CS302	18CS02	CSE4A	20	12	28	-
1BY18CS303	18CS02	CSE4B	15	5	25	-
1BY18CS304	18CS02	CSE4B	25	20	19	-
1BY18CS305	18CS02	CSE4C	8	25	30	-
1BY18CS301	18CS03	CSE4A	30	10	30	-
1BY18CS302	18CS03	CSE4A	27	15	10	-
1BY18CS303	18CS03	CSE4B	15	20	25	-
1BY18CS304	18CS03	CSE4B	15	20	10	-
1BY18CS305	18CS03	CSE4C	17	18	19	-
1BY18CS301	18CS04	CSE4A	30	5	30	-
1BY18CS302	18CS04	CSE4A	8	16	11	-
1BY18CS303	18CS04	CSE4B	4	7	25	-
1BY18CS304	18CS04	CSE4B	29	30	29	-
1BY18CS305	18CS04	CSE4C	30	29	30	-
1BY17CS501	17CS01	CSE6A	25	10	15	-
1BY17CS502	17CS01	CSE6A	30	29	30	-
1BY17CS503	17CS01	CSE6B	8	25	30	-
1BY17CS504	17CS01	CSE6C	25	10	15	-
1BY17CS505	17CS01	CSE6C	25	10	15	-
1BY17CS501	17CS02	CSE6A	25	10	15	-
1BY17CS502	17CS02	CSE6A	8	25	30	-
1BY17CS503	17CS02	CSE6B	17	18	19	-
1BY17CS504	17CS02	CSE6C	30	29	30	-
1BY17CS505	17CS02	CSE6C	8	25	30	-
1BY17CS501	17CS03	CSE6A	25	10	15	-
1BY17CS502	17CS03	CSE6A	17	18	19	-
1BY17CS503	17CS03	CSE6B	30	29	30	-
1BY17CS504	17CS03	CSE6C	8	25	30	-
1BY17CS505	17CS03	CSE6C	14	10	15	-
1BY17CS501	17CS04	CSE6A	8	25	30	-
1BY17CS502	17CS04	CSE6A	25	10	15	-
1BY17CS503	17CS04	CSE6B	8	25	30	-
1BY17CS504	17CS04	CSE6C	17	18	19	-
1BY17CS505	17CS04	CSE6C	8	11	15	-
1BY16CS701	16CS01	CSE8A	25	10	15	-
1BY16CS702	16CS01	CSE8A	8	25	30	-
1BY16CS703	16CS01	CSE8B	17	18	19	-
1BY16CS704	16CS01	CSE8B	25	10	15	-
1BY16CS705	16CS01	CSE8C	8	25	30	-
1BY16CS701	16CS02	CSE8A	25	10	15	-
1BY16CS702	16CS02	CSE8A	8	25	30	-
1BY16CS703	16CS02	CSE8B	17	18	19	-
1BY16CS704	16CS02	CSE8B	25	10	15	-
1BY16CS705	16CS02	CSE8C	5	15	30	-
1BY16CS701	16CS03	CSE8A	25	10	15	-
1BY16CS702	16CS03	CSE8A	8	25	30	-
1BY16CS703	16CS03	CSE8B	15	15	30	-
1BY16CS704	16CS03	CSE8B	4	7	25	-
1BY16CS705	16CS03	CSE8C	8	25	30	-
1BY16CS701	16CS04	CSE8A	5	15	30	-
1BY16CS702	16CS04	CSE8A	8	25	30	-
1BY16CS703	16CS04	CSE8B	4	7	25	-
1BY16CS704	16CS04	CSE8B	25	10	15	-
1BY16CS705	16CS04	CSE8C	4	7	25	-

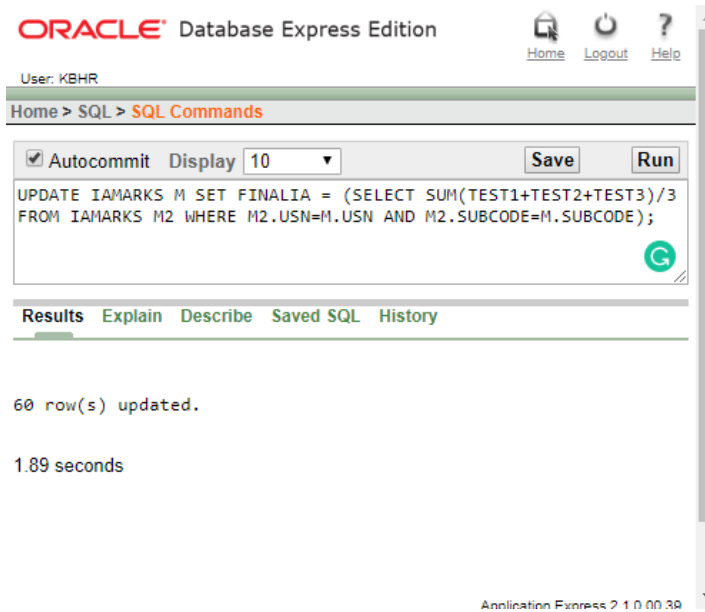
60 rows returned in 0.00 seconds [CSV Export](#)

Application Express 2.1.0.0.39  
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## UPDATE IAMARKS M

```
SET FINALIA = (SELECT SUM(TEST1+TEST2+TEST3)/3 FROM IAMARKS M2  
WHERE M2.USN=M.USN AND M2.SUBCODE=M.SUBCODE);
```



The screenshot displays the Oracle Database Express Edition interface. At the top, it shows the Oracle logo and the text "Database Express Edition". Below this, there are navigation links for "Home", "Logout", and "Help". The user is identified as "User: KBHR". The main area is titled "Home > SQL > SQL Commands". It features a toolbar with a checked "Autocommit" checkbox, a "Display" dropdown set to "10", and "Save" and "Run" buttons. The SQL command being executed is: `UPDATE IAMARKS M SET FINALIA = (SELECT SUM(TEST1+TEST2+TEST3)/3 FROM IAMARKS M2 WHERE M2.USN=M.USN AND M2.SUBCODE=M.SUBCODE);`. Below the command, there are tabs for "Results", "Explain", "Describe", "Saved SQL", and "History". The "Results" tab is active, showing the message "60 row(s) updated." and "1.89 seconds". At the bottom right, the application version "Application Express 2.1.0.00.30" is visible.

**SELECT \* FROM IAMARKS; (AFTER THE UPDATE COMMAND)**

ORACLE Database Express Edition Home Logout Help

User: KBHR

Home > SQL > SQL Commands

Autocommit Display 200 Save Run

```
SELECT * FROM IAMARKS;
```

**Results** Explain Describe Saved SQL History

USN	SUBCODE	SSID	TEST1	TEST2	TEST3	FINALIA
1BY18CS301	18CS01	CSE4A	22	15	20	19
1BY18CS302	18CS01	CSE4A	20	12	28	20
1BY18CS303	18CS01	CSE4B	30	25	30	28.33
1BY18CS304	18CS01	CSE4B	10	12	19	13.67
1BY18CS305	18CS01	CSE4C	8	15	30	17.67
1BY18CS301	18CS02	CSE4A	5	15	30	16.67
1BY18CS302	18CS02	CSE4A	20	12	28	20
1BY18CS303	18CS02	CSE4B	15	5	25	15
1BY18CS304	18CS02	CSE4B	25	20	19	21.33
1BY18CS305	18CS02	CSE4C	8	25	30	21
1BY18CS301	18CS03	CSE4A	30	10	30	23.33
1BY18CS302	18CS03	CSE4A	27	15	10	17.33
1BY18CS303	18CS03	CSE4B	15	20	25	20
1BY18CS304	18CS03	CSE4B	15	20	10	15
1BY18CS305	18CS03	CSE4C	17	18	19	18
1BY18CS301	18CS04	CSE4A	30	5	30	21.67
1BY18CS302	18CS04	CSE4A	8	16	11	11.67
1BY18CS303	18CS04	CSE4B	4	7	25	12
1BY18CS304	18CS04	CSE4B	29	30	29	29.33
1BY18CS305	18CS04	CSE4C	30	29	30	29.67
1BY17CS501	17CS01	CSE6A	25	10	15	16.67
1BY17CS502	17CS01	CSE6A	30	29	30	29.67
1BY17CS503	17CS01	CSE6B	8	25	30	21
1BY17CS504	17CS01	CSE6C	25	10	15	16.67
1BY17CS505	17CS01	CSE6C	25	10	15	16.67
1BY17CS501	17CS02	CSE6A	25	10	15	16.67
1BY17CS502	17CS02	CSE6A	8	25	30	21
1BY17CS503	17CS02	CSE6B	17	18	19	18
1BY17CS504	17CS02	CSE6C	30	29	30	29.67
1BY17CS505	17CS02	CSE6C	8	25	30	21
1BY17CS501	17CS03	CSE6A	25	10	15	16.67
1BY17CS502	17CS03	CSE6A	17	18	19	18
1BY17CS503	17CS03	CSE6B	30	29	30	29.67
1BY17CS504	17CS03	CSE6C	8	25	30	21
1BY17CS505	17CS03	CSE6C	14	10	15	13
1BY17CS501	17CS04	CSE6A	8	25	30	21
1BY17CS502	17CS04	CSE6A	25	10	15	16.67
1BY17CS503	17CS04	CSE6B	8	25	30	21
1BY17CS504	17CS04	CSE6C	17	18	19	18
1BY17CS505	17CS04	CSE6C	8	11	15	11.33
1BY16CS701	16CS01	CSE8A	25	10	15	16.67
1BY16CS702	16CS01	CSE8A	8	25	30	21
1BY16CS703	16CS01	CSE8B	17	18	19	18
1BY16CS704	16CS01	CSE8B	25	10	15	16.67
1BY16CS705	16CS01	CSE8C	8	25	30	21
1BY16CS701	16CS02	CSE8A	25	10	15	16.67
1BY16CS702	16CS02	CSE8A	8	25	30	21
1BY16CS703	16CS02	CSE8B	17	18	19	18
1BY16CS704	16CS02	CSE8B	25	10	15	16.67
1BY16CS705	16CS02	CSE8C	5	15	30	16.67
1BY16CS701	16CS03	CSE8A	25	10	15	16.67
1BY16CS702	16CS03	CSE8A	8	25	30	21
1BY16CS703	16CS03	CSE8B	15	15	30	20
1BY16CS704	16CS03	CSE8B	4	7	25	12
1BY16CS705	16CS03	CSE8C	8	25	30	21
1BY16CS701	16CS04	CSE8A	5	15	30	16.67
1BY16CS702	16CS04	CSE8A	8	25	30	21
1BY16CS703	16CS04	CSE8B	4	7	25	12
1BY16CS704	16CS04	CSE8B	25	10	15	16.67
1BY16CS705	16CS04	CSE8C	4	7	25	12

60 rows returned in 0.00 seconds [CSV Export](#)

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**5. Categorize students based on the following criterion:****If FinalIA = 17 to 20 then CAT = 'Outstanding'****If FinalIA = 12 to 16 then CAT = 'Average'****If FinalIA < 12 then CAT = 'Weak'****Give these details only for 8th semester A, B, and C section students.**

```
SELECT S.USN,S.SNAME,IA.FINALIA,IA.SUBCODE,
(CASE
  WHEN IA.FINALIA BETWEEN 17 AND 30 THEN 'OUTSTANDING'
  WHEN IA.FINALIA BETWEEN 12 AND 17 THEN 'AVERAGE'
  WHEN IA.FINALIA < 12 THEN 'WEAK'
  ELSE 'NO_DATA'
END) AS RESULTS
FROM STUDENT S, SEMSEC SS, IAMARKS IA, SUBJECT SUB
WHERE S.USN = IA.USN AND
SS.SSID = IA.SSID AND
SUB.SUBCODE = IA.SUBCODE AND
SUB.SEM = 8;
```

## ORACLE Database Express Edition



User: KBHR

Home &gt; SQL &gt; SQL Commands

Autocommit Display 200 Save Run

```

SELECT S.USN,S.SNAME,IA.FINALIA,IA.SUBCODE,
(CASE
WHEN IA.FINALIA BETWEEN 17 AND 30 THEN 'OUTSTANDING'
WHEN IA.FINALIA BETWEEN 12 AND 17 THEN 'AVERAGE'
WHEN IA.FINALIA < 12 THEN 'WEAK'
ELSE 'NO_DATA'
END) AS RESULTS
FROM STUDENT S, SEMSEC SS, IAMARKS IA, SUBJECT SUB
WHERE S.USN = IA.USN AND
SS.SSID = IA.SSID AND
SUB.SUBCODE = IA.SUBCODE AND
SUB.SEM = 8;

```

**Results** Explain Describe Saved SQL History

USN	SNAME	FINALIA	SUBCODE	RESULTS
1BY16CS702	ABDUL	21	16CS04	OUTSTANDING
1BY16CS702	ABDUL	21	16CS03	OUTSTANDING
1BY16CS702	ABDUL	21	16CS02	OUTSTANDING
1BY16CS702	ABDUL	21	16CS01	OUTSTANDING
1BY16CS703	NOOR	12	16CS04	AVERAGE
1BY16CS703	NOOR	20	16CS03	OUTSTANDING
1BY16CS703	NOOR	18	16CS02	OUTSTANDING
1BY16CS703	NOOR	18	16CS01	OUTSTANDING
1BY16CS704	HEMANTH	16.67	16CS04	AVERAGE
1BY16CS704	HEMANTH	12	16CS03	AVERAGE
1BY16CS704	HEMANTH	16.67	16CS02	AVERAGE
1BY16CS704	HEMANTH	16.67	16CS01	AVERAGE
1BY16CS705	RAHUL	12	16CS04	AVERAGE
1BY16CS705	RAHUL	21	16CS03	OUTSTANDING
1BY16CS705	RAHUL	16.67	16CS02	AVERAGE
1BY16CS705	RAHUL	21	16CS01	OUTSTANDING
1BY16CS701	PUNITH	16.67	16CS04	AVERAGE
1BY16CS701	PUNITH	16.67	16CS03	AVERAGE
1BY16CS701	PUNITH	16.67	16CS02	AVERAGE
1BY16CS701	PUNITH	16.67	16CS01	AVERAGE

20 rows returned in 0.02 seconds

[CSV Export](#)

Application Express 2.1.0.00.39

Language: en-us

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**THE END**

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